Year 2006 Annual Monitoring Report

Breakfast Point Mitigation Bank

Bay County, Florida

Prepared for:

Breakfast Point Mitigation Bank, St. Joe Company

Submitted to:

The Florida Department of Environmental Protection Mitigation Bank Instrument Number 0227473-001

U.S. Army Corps of Engineers Mitigation Bank Instrument Number SAJ-2004-1865

U.S. Fish and Wildlife Service

St. Joe Company

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YEAR 2006 ANNUAL MONITORING REPORT

Results from the 2006 Monitoring at Breakfast Point Mitigation Bank

BREAKFAST POINT MITIGATION BANK BAY COUNTY, FLORIDA

ACOE Permit No.: SAJ-2004-1865 FDEP Permit No.: 0227473-001

Applicant: Breakfast Point Mitigation Bank

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Summary

Management of the Breakfast Point Mitigation Bank (BPMB) continued in 2006. Restoration activities, annual monitoring, evaluation of data, and report writing were carried out as per the BPMB instrument. The purpose for these actions was the continued restoration of the landscape and the assessment of biological responses to restoration activities. Results were compiled and evaluated with respect to measuring landscape changes and assessing progress toward performance criteria. Two comprehensive tables (Appendix A) restate the interim and final performance criteria for each phase, report the corresponding results, and assess the status and trend in each case. Tables 1 and 2 (in the document below) report the schedule of current and future activities and proposed credit releases, respectively. Restoration activities have progressed successfully with positive results, and all performance standards are trending toward success.

I. PROJECT OVERVIEW

Breakfast Point Mitigation Bank began management in 2004 and is comprised of 5,031 acres, most of which shows signs of pine planting and/or fire suppression associated with silviculture. Historic 1942 aerials suggest a landscape dominated by wet savanna, swamp and marsh (freshwater and brackish) habitats. Management of the site has been divided into four areas (Phase 1, Phase 2, Phase 3, and Phase 4) to facilitate restoration activities and credit releases. For specific discussions of site history, landscape characteristics, goals and objectives, and materials and methods see First Annual Monitoring Report – Baseline (2004).

Baseline monitoring was completed for all phases in 2004. With respect to restoration activities, Phases 1 and 2 are currently in active management and proceeding successfully; activities in Phases 3 and 4 are pending (see Schedule of Tasks, Table I). Prescribed burns have been conducted and mechanical treatments have been implemented in both phases; however, further treatments have yet to be completed in Phase 2 (see Figure 3). Annual monitoring has been conducted in Phases 1 and 2 to evaluate the effects of restoration activities with respect to performance criteria.

Purpose

The following is an Annual Report of restoration and monitoring results for Breakfast Point Mitigation Bank, 2006. The report provides restoration and monitoring results and an analysis of these results with respect to the performance standards (as per the Breakfast Point Mitigation Bank / MBI / Mitigation Plan Documentation, 2005). Semiannual progress reports for 2006 are also included (Attachment E).

Location, Perimeter, Directions

The Breakfast Point Mitigation Bank site is in the West Bay Watershed, approximately 0.5 mile north of U.S. Hwy 98 and 2 miles east of SR 79, Bay County, FL (Figure 1). The U.S. Hwy 98 / West Bay Bridge is located approximately 1 mile to the east. West

Bay comprises the northern boundary of the site. The site is bordered by private lands to the east, west, and south.

Restoration and Maintenance Activities

Restoration and maintenance activities have progressed successfully in 2006. (see Table 1 for a complete list of activities and their status; see also the semiannual reports in Appendix D). Through a combination of mechanical treatments (e.g. roller chopping and walk down) and prescribed burns, canopy was reduced in the areas treated. Exotic plant species [e.g. torpedo grass (*Panicum repens*) and Chinese tallow tree (*Sapium sebiferum*)] were also reduced by treatments with herbicide, and 101 hogs (*Sus scrofa*) were physically removed from the site.

Phases 1 and 2

Burning, logging, and brush reduction activities were completed for Phase 1. Phase 2 will require additional mechanical reduction, which is planned for completion in 2007. These activities will proceed as weather and conditions allow in 2007. Exotic species were treated and removed in both phases, and monitoring activities were completed for both phases as well (see Table 1).

Phases 3 and 4

In March 2006 FDEP issued the first credit release for Phase 1 and 2. The release activity Record Conservation Easement, Financial Assurances (Permit Sections III-d and III-E) was successfully implemented and thus, the Phases implemented. Activities in 2006 focused on works within Phases 1 and 2. The mechanical and burning work for Phase 1 was completed while Phase 2 will be continued in 2007. Currently, it is expected Phase 3 will come on line (pending review by FDEP of the initiation release) sometime in 2008, followed by Phase 4 in 2009.

Adjustment to Methods

We have implemented a change in methods used to estimate tree densities (First Annual Monitoring Report – Baseline, 2004, p. 12). The 10 x 10m Plot Method used for nonrandomly spaced trees (e.g. planted pine) has been replaced with a Tenth Acre Plot Method to achieve more realistic estimations when trees are at low densities (e.g. as a result of mechanical reductions).

Tak	Table I. Schedule of Tasks, BPMB								
Phase	Task					ars			
		2004	2005	2006	2007	2008	2009	2010	2011
1	Financial Assurance & Conservation Easement		Х						
1	Selective Logging\ Vegetation Removal (as needed)		Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
1	Hazard Reduction Burn (as needed)		Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
1	Photodocument Prescribed Burn		Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
1	Prescribed Burn (as needed)		Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
1	Hydrologic Improvments				Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
1	Exotic Species Identification and Location (as needed)		Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
1	Exotic Control and Removal (as needed)		Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
1	Establish Quantitative Vegetative Monitoring Transects	Jan-Dec							
1	Bi-Monthly Permit Compliance Inspections		Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
1	Annual Vegetative Monitoring	Sept- Dec	Sept-Dec	Sept-Dec	Sept- Dec	Sept- Dec	Sept-Dec	Sept-Dec	Sept-Dec
1	Biannual Progress Report		Jan, July	Jan, July	Jan, July	Jan, July	Jan, July	Jan, July	Jan, July
1	Annual Report		Jan	Jan	Jan	Jan	Jan	Jan	Jan
1	Hydrologic Monitoring		Baseline Jan-Dec	Baseline Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	
2	Financial Assurance & Conservation Easement		x						
2	Selective Logging\ Vegetation Removal (as needed)		Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
2	Hazard Reduction Burn (as needed)		Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
2	Photodocument Prescribed Burn		Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
2	Prescribed Burn (as needed)		Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
2	Hydrologic Improvments				Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
2	Exotic Species Identification and Location (as needed)		Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
2	Exotic Control and Removal (as needed)		Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
	Establish Quantitative Vegetative Monitoring Transects	Sept- Dec							
	Bi-Monthly Permit Compliance Inspections		Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
2	Annual Monitoring	Sept- Dec	Sept-Dec	Sept-Dec	Sept- Dec	Sept- Dec	Sept-Dec	Sept-Dec	Sept-Dec
2	Biannual Progress Report		Jan, July	Jan, July			Jan, July	Jan, July	Jan, July
2	Annual Report		Jan	Jan	Jan	Jan	Jan	Jan	Jan
2	Hydrologic Monitoring		Baseline Jan-Dec	Baseline Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	
3	Financial Assurance & Conservation Easement				x				

_			ı	ı	1		ı	
3	Selective Logging\ Vegetation Removal				Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
_	(as needed)							
3	Hazard Reduction Burn (as needed)				Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
3	Photodocument Prescribed Burn				Jan Daa	Jan Das	Jan Daa	Jan Das
					Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
3	Prescribed Burn (as needed)				Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
3	Hydrologic Improvments				Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
3	Exotic Species Identification and Location							
Ŭ	(as needed)				Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
3	Exotic Control and Removal (as needed)							
	,				Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
3	Establish Quantitative Vegetative	Sept-						
	Monitoring Transects	Dec						
3	Bi-Monthly Permit Compliance Inspections				Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
						Jan-Dec	Jan-Dec	Jan-Dec
3	Annual Monitoring	Sept-			Sept-	Sept-Dec	Sept-Dec	
_	D: 10 0	Dec			Dec			
3	Biannual Progress Report				Jan, July	Jan, July	Jan, July	Jan, July
3	Annual Report				Jan	Jan	Jan	Jan
3	Hydrologic Monitoring		Baseline		Jan	Jan	Jan	Jan
	Try drologic Worldoning		Jan-Dec		Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
4	Financial Assurance & Conservation		oun Doo					
-	Easement			X				
4	Selective Logging\ Vegetation Removal				15	1	16	1 6
	(as needed)				Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
4	Hazard Reduction Burn (as needed)				Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
					Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
4	Photodocument Prescribed Burn				Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
L.								
4	Prescribed Burn (as needed)				Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
_	I hadrologia largera cata							
4	Hydrologic Improvments				Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
4	Exotic Species Identification and Location				Sept-			
	(as needed)				Dec	Sept-Dec	Sept-Dec	Sept-Dec
4	Exotic Control and Removal (as needed)					16	1	1 6
	,				Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
4	Establish Quantitative Vegetative	Sept-						
	Monitoring Transects	Dec	 					
4	Bi-Monthly Permit Compliance Inspections				Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
							52 500	
4	Annual Monitoring	Sept-			Sept-	Sept-Dec	Sept-Dec	
1	Biannual Progress Report	Dec			Dec	•		
4	ыанниан Progress кероп				Jan, July	Jan, July	Jan, July	Jan, July
4	Annual Report				Jan	Jan	Jan	Jan
4	Hydrologic Monitoring		Baseline		van	Vali	Jan	van
	, s. s. sgio mornioning		Jan-Dec		Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
			Juli Dec	I	I .			

II. REQUIREMENTS / RESULTS

Performance standards as per the MBI (see Breakfast Point Mitigation Bank MBI, MBI Permit, p. 8) are summarized below and detailed in two tables (see Tables 3A and 3B). Within the tables, the results for each annual monitoring event (by Phase) to date are reported next to the appropriate performance standard, and an evaluation of the status and/or current trend of the plant community with respect to each performance standard is reported. Status and trends are further evaluated by Phase below. A proposed credit release schedule based on the completed tasks is also shown below (Table 2).

Table 2. BPMB Proposed Credit Release Schedule

Release Activity	Permit Section	%Credits Released	Credits Phase 1	Credits Phase 2	Credits Phase 3	Credits Phase 4
Record Conservation Easement, Financial Assurances	III-D, III-E	10%	16.63	59.66	17.09	6.41
Logging, Selective Clearing, Brush Reduction, Exotic Control	III-F	20%	33.32	119.32	34.18	12.84
Prescribed Burn	III-G	15%	24.91	89.49	25.64	9.64
Hydrologic Improvements	III-H	5%	8.32	29.84	8.56	3.23
Performance Standards, Year 1 attained	IV-E(3)	10%	16.63	59.66	17.09	6.41
Performance Standards, Year 2 attained	IV-E(3)	10%	16.63	59.66	17.09	6.41
Performance Standards, Year 3 attained	IV-E(3)	10%	16.63	59.66	17.09	6.41
Performance Standards, Year 4 attained	IV-E(3)	10%	16.63	59.66	17.09	6.41
Performance Standards, Final attained	IV-E(2)	10%	21.96	59.66	17.09	6.41
Total (998.03 credits)		100%	166.33	596.61	170.92	64.17

Previously released

Potential credit release for tasks completed in 2006*

Community Requirements / Performance Standards

• Phase 1 (see also Table 3A)

Quantitative Results

In Phase 1, all performance standards are trending toward success, and all final and/or interim performance standards have been met except two. In the Mixed Forested Wetland, there is 50% coverage of non-nuisance native ground and shrub species – final performance standard is 75% coverage. In Mesic Pine Flatwoods, there is 5.4% relative coverage of graminoids within the non-nuisance vegetation, and the trend is increasing. The interim performance standard is 20% relative coverage of graminoids. All other interim (and in most cases the final) performance standards have been met. Hydric Pine Flatwoods and Cypress Flat communities have met at least interim standards in all categories.

^{*} A request for credit release has not been submitted. It is anticipated that a request for credit release, as per IV. Operation of the Bank, Section F.1. Credit Release Schedule, will be submitted some time in 2007.

Qualitative Results

In phase 1, qualitative transects 4 and 10 bisect a large portion of the treated and managed landscape. Transect 4 includes Cypress Flat, Mixed Forested Wetland and Hydric Pine Flatwoods. This landscape has received prescribed burns, mechanical thinning and in some places roller chopping. Woody shrubs have been reduced to coppice and appropriate native groundcover species are responding appropriately to mechanical treatments and prescribed burns. The graminoids such as wiregrass and sedges are reproducing normally. Although there are logs on the ground in some of the knockdown areas, these are expected to quickly rot as many were partially burned during the prescribed fire. The canopy has been thinned and is trending toward appropriate density. Notable wildlife in phase 1 includes an active Bald Eagle nest than can be seen along transect 4. In addition, an Audubon spring migration bird survey was conducted at BPMB in May 2006 and this resulted in 38 bird species being recorded on this site. Bird diversity is often considered an important measure of ecosystem health and the diversity of bird species observed has increased especially in areas that have undergone restoration treatments. Transect 10 included Hydric Pine Flatwoods and Mesic Pine Flatwoods. The qualitative results support the quantitative findings as summarized in Table IIA. The resulting landscapes are more open and the groundcover has responded favorably to the increase in light, air movement, and a general decrease in competition from fire suppressed woody species.

TABLE 3A. PHASE 1. Final and Interim Performance Standards are summarized and results are given. Status and Trend with respect to each performance standard are evaluated in the far right column.

COLOR KEY

Final standard complete

Interim standard complete

Standard not complete

	ŀ	YDRIC PINE FLATWOODS		
Final Performance Standard	Interim Performance Standard Year 1	Results - Year 1 (Baseline)	Results - Year 2	Status / Trend
75 desirable (native) species per transect	25 desirable species / 40% cover non- nuisance vegetation	Average species/transect = 46 35% cover non-nuisance vegetation	Average species/transect = 25 28% cover non-nuisance vegetation	Interim standard complete / relative coverage increasing
Woody shrubs shall be no taller than coppice sprouts.	NONE	Average height of shrubs = 1.43m	Average height of shrubs = 0.25m	Final standard complete
Average cover of graminoids shall be 75% or greater with no one quadrat having less than 50% cover; each quadrat will have at least 85% coverage with graminoid species (or clear trend of increasing graminoid coverage).	20% of non-nuisance vegetation is graminoid	Relative coverage of graminoids = 30%	Relative coverage of graminoids= 68%	Interim standard complete / relative coverage increasing
Plants reproducing naturally by normal vegetative spread or seedling establishment.	NONE	Groundcover suppression observed	Normal reproduction observed	Final standard complete
Nuisance and exotic species limited to 5% or less coverage/ac; exotic spp. limited to 1% or less coverage/ac	NONE	No nuisance species recorded, less than 1% exotic species recorded	No nuisance species recorded, less than 1% exotic species recorded	Final standard complete
Desirable canopy trees trending toward a basal area of 40-70 sq.ft./ac and 60-112 trees/ac	NONE	Over 200 trees\acre on average	Canopy = 60 trees/ac	Final standard complete
		CYPRESS FLAT		
Final Performance Standard	Interim Performance Standard Year 1	Results - Year 1 (Baseline)	Results - Year 2	Status / Trend
75 desirable (native) species per transect	25 desirable species / 40% cover non- nuisance vegetation	Average species/transect = 29 59% cover non-nuisance vegetation	Average species/transect = 28 42% cover non-nuisance vegetation	Interim standard complete / relative coverage increasing
Woody shrubs shall be no taller than coppice sprouts.	NONE	Average height of shrubs = 1.43m	Average height of shrubs = 0.25m	Final standard complete
Average cover of graminoids shall be 75% or greater with no one quadrat having less than 50% cover; each quadrat will have at least 85% coverage with graminoid species (or clear trend of increasing graminoid coverage).	no one quadrat having less than each quadrat will have at least le with graminoid species (or graminoid graminoid species). 20% of non-nuisance vegetation is graminoid graminoid graminoid. Relative coverage of graminoids= 52% Relative coverage of graminoids= 70% Relative coverage of graminoids graminoids graminoids graminoid.		Interim standard complete / relative coverage increasing	
Plants reproducing naturally by normal vegetative spread or seedling establishment.	NONE	Groundcover suppression observed Normal reproduction observed		Final standard complete
Nuisance and exotic species limited to 5% or less coverage/ac; exotic spp. limited to 1% or less coverage/ac	INCOME	No nuisance species recorded, less than 1% exotic species recorded	No nuisance species recorded, less than 1% exotic species recorded	Final standard complete
Canopy trees gaining basal area annually and trending toward 5-20 trees/stand (average)	NONE	73.5 trees/acre	5-20 trees/acre	Final standard complete
		IXED FORESTED WETLAND		
Final Performance Standard	Interim Performance Standard Year 1	Results - Year 1 (Baseline)	Results - Year 2	Status / Trend
	NONE	Coverage = 50%	Coverage = 50%	Standard not complete
less than 30% immature trees). Desirable canopy tree cover increasing. At least 30% canopy cover.	NONE	Desirable canopy tree coverage 60%	Desirable canopy tree coverage 60%	Final standard complete
Plants reproducing naturally by normal vegetative spread or seedling establishment.	NONE	Normal reproduction observed	Normal reproduction observed	Final standard complete
Nuisance and exotic species limited to 5% or less coverage/ac; exotic spp. limited to 1% or less coverage/ac	NONE	No nuisance species recorded, less than 1% exotic species recorded	No nuisance species recorded, less than 1% exotic species recorded	Final standard complete
		MESIC PINE FLATWOODS		
Final P. C.	Interim Performance Standard	Decide V (2 ii	B 11 11	
Final Performance Standard 25 desirable species per quadrat	Year 1 10 desirable species / 30% cover non-	Results - Year 1 (Baseline) Average species/transect = 26	Results - Year 2 Average species/transect = 26	Status / Trend Interim standard complete
Average cover of graminoids at least 30%	nuisance vegetation Average species/transect = 26 Average species/transect = 26 If Average species/transect = 26 Average species/transect = 26 If Average species/transect		Standard not complete / relative coverage increasing	
Plants reproducing naturally by normal vegetative spread or seedling establishment.	NONE	Groundcover suppression observed	Normal reproduction observed	Final standard complete
Nuisance and exotic species are limited to 5% or less coverage/acre	NONE	No nuisance species recorded, less than 1% exotic species recorded	No nuisance species recorded, less than 1% exotic species recorded	Final standard complete
Desirable canopy trees trending toward 40-70 sq.ft./ac and 60-112 trees/acre (average).	NONE	600 trees/acre	Canopy trees = 70 trees/acre	Final standard complete
				<u> </u>

• Phase 2 (see also Table 3B)

Quantitative Results

In Phase 2, all performance standards are also trending toward success. In Hydric Pine Flatwoods, 46 desirable species per transect and 28% coverage of non-nuisance vegetation were observed. These were both increases over baseline data, indicating a successful trend. The interim standard is 25 desirable species and 40% coverage; therefore, this standard was met in part. In Palustrine Marsh, there is 54% coverage of herbaceous species, also an increasing trend over baseline data. The final performance standard requires 75% or greater herbaceous cover. In Cypress Flat and Mesic Flatwoods communities, either interim or final performance standards have been met in every case.

Qualitative Results

Phase 2 is the largest phase in area at BPMB. It includes 11 transects (whole or in part). These are transects 1, 3, 4, 5, 6, 7, 8, 9, 10, 11 and 12. Plant communities traversed by these transects include Hydric Pine Flatwoods, Mesic Pine Flatwoods, Wet Prairie (Treeless Hydric Savanna), Cypress Flat, Mixed Forested Wetland, Palustrine Marsh. Although much of Phase 2 has yet to be mechanically treated, significant portions have been burned. Most notable are the areas in Transect 6 where the relatively mature canopy has been reduced and the landscape opened (see photographs of transect BP2T6_MPF). Burning and mechanical reduction can also be seen throughout much of the northeastern portion of Phase 2 and are planned for the remainder of Phase 2 in 2007 (see Table 1, Schedule of Tasks).

TABLE 3B. PHASE 2. Final and Interim Performance Standards are summarized and results are given. Success and/or Trend with respect to each performance standard is evaluated.

COLOR KEY

Final standard complete

Interim standard complete

Standard not complete

		PALUSTRINE MARSH		
Final Performance Standard	Interim Performance Standard Year 1	Results - Year 1 (Baseline)	Results - Year 2	Status / Trend
75% or greater herbaceous cover.	NONE	Coverage = 40%	Coverage = 54%	Standard not complete
No greater than 10% cover of woody shrubs.	NONE	1% coverage by woody species	0.1% coverage by woody species	Final standard complete
Plants reproducing naturally by normal vegetative spread or seedling establishment.	NONE	Normal reproduction observed	Normal reproduction observed	Final standard complete
Nuisance and exotic species limited to 5% or less coverage/ac; exotic spp. limited to 1% or less coverage/ac	NONE	No nuisance species recorded; no exotic species recorded	No nuisance species recorded; no exotic species recorded	Final standard complete
	ŀ	IYDRIC PINE FLATWOODS		
	Interim Performance Standard			
1/5 desirable (native) species per transect	Year 1 25 desirable species / 40% cover non- nuisance vegetation	Average species/transect = 42 21.5% cover non-nuisance vegetation	Average species/transect = 46 28% cover non-nuisance vegetation	Status / Trend Interim standard complete (in part) / average number of species increasing and total coverage by non-nuisance vegetation increasing
Woody shrubs shall be no taller than coppice sprouts.	NONE	Average height of shrubs = 2 m	Average height of shrubs = 0.25m	Final standard complete
• · · · · · · · · · · · · · · · · · · ·	20% of non-nuisance vegetation is graminoid	Relative coverage of graminoids = 11%	Relative coverage of graminoids = 21%	Interim standard complete / relative coverage increasing
vegetative spread or seedling establishment.	NONE	Groundcover suppression observed	Normal reproduction observed	Final standard complete
Nuisance and exotic species limited to 5% or less coverage/ac; exotic spp. limited to 1% or less coverage/ac	NONE	No nuisance species recorded, 0% exotic species recorded	No nuisance species recorded, 0% exotic species recorded	Final standard complete
Desirable canopy trees trending toward a basal area of 40-70 sq.ft./ac and 60-112 trees/ac		Over 400 trees\acre on average	Canopy = 60 trees/acre	Standard not complete
		CYPRESS FLAT		
Final Performance Standard	Interim Performance Standard Year 1	Results - Year 1 (Baseline)	Results - Year 2	Status / Trend
75 desirable (native) species per transect	25 desirable species / 40% cover non- nuisance vegetation	Average species/transect = 32 34.5% cover non-nuisance vegetation	Average species/transect = 32 48% cover non-nuisance vegetation	Interim standard complete / relative coverage increasing
Woody shrubs shall be no taller than connice	NONE	Average height of shrubs = 1.22m	Average height of shrubs = 0.25m	Final standard complete
Average cover of graminoids shall be 75% or greater with no one quadrat having less than 50% cover; each quadrat will have at least	20% of non-nuisance vegetation is graminoid	Relative coverage of graminoids = 24%	Relative coverage of graminoids = 37%	Interim standard complete / relative coverage increasing
Plants reproducing naturally by normal vegetative spread or seedling establishment.	NONE	Groundcover suppression observed	Normal reproduction observed	Final standard complete
Nuisance and exotic species limited to 5% or less coverage/ac; exotic spp. limited to 1% or less coverage/ac	NONE	No nuisance species recorded, less than 1% exotic species recorded	No nuisance species recorded, less than 1% exotic species recorded	Final standard complete
Canopy trees gaining basal area annually and trending toward 5-20 trees/stand (average)	NONE	77 trees/acre	Canopy = 5-20 trees/acre	Standard not complete
		MESIC PINE FLATWOODS		
Final Parformance Standard	Interim Performance Standard Year 1	Posulte - Voor 1 (Posolina)	Results - Year 2	Status / Trend
Final Performance Standard 25 desirable species per quadrat	10 desirable species / 30% cover non- nuisance vegetation	Average species/transect = 20 34% cover non-nuisance vegetation	Average species/transect = 22.6 47.3% cover non-nuisance vegetation	Interim standard complete / average number of species increasing, coverage increasing
tcover each quadrat will attain at least 50%	20% of non-nuisance vegetation is graminoid	Relative coverage of graminoids = 11.3%	Relative coverage of graminoids= 21.6%	Interim standard complete / relative coverage increasing
Plants reproducing naturally by normal vegetative spread or seedling establishment.	NONE	Groundcover suppression observed	Normal reproduction observed	Final standard complete
Nuisance and exotic species are limited to		No nuisance species recorded, less	No nuisance species recorded, less	Final standard complete
5% or less coverage/acre	NONE	than 1% exotic species recorded	than 1% exotic species recorded	

Compliance (Hydrological Improvements)

All hydrologic observation points (monitoring wells and instruments) continue to be monitored throughout BPMB. This activity is as per the BPMB compensatory mitigation plan (Attachment A-9 – Hydrologic Restoration Plan). The BPMB hydrologic monitoring network includes nine (9) permanent groundwater monitoring wells, four (4) surface water wells, and one (1) precipitation gauge. All monitoring locations are configured for near-continuous hydrologic data acquisition. Data collected from the hydrologic monitoring network at the BPMB to date suggest groundwater across the site is extremely sensitive to precipitation events (rapid water table mounding and rapid recovery to baseline conditions). Additionally, data collected from some of the surface water and groundwater locations in the northern portion of the BPMB are sensitive to tidal motion as shown in Exhibit 1. An example of groundwater data is shown in Exhibit 2, and Exhibit 3 illustrates the predicted pre and post culvert surface water flow. Well locations relating to the exhibits are shown on Figure 2.

Hydrologic monitoring at BPMB will continue through January 2008. Data collected during the 2006 reporting period includes on-site precipitation, temporal change in surface water elevation at four (4) surface water monitoring locations, and temporal change in groundwater elevation at nine (9) groundwater monitoring locations. Examples of hydrologic data are shown in exhibits 1-3. Continued measurement of these parameters will occur during 2007 monitoring period.

A primary goal of the BPMB hydrologic monitoring effort is to collect a dataset sufficient to allow recommendations regarding the need for hydrologic improvements/modifications at the bank. During the 2007 monitoring period, hydrologic modeling of surface water flow with and without proposed hydrologic improvements (culverts, low-water crossings, ditch blocks) will be performed, using the BPMB hydrologic dataset to calibrate model input. Preliminary modeling using the Army Corps of Engineers (ACOE) HEC-1 model to assess affect of a proposed culvert at the BPMB (under 25 year design storm conditions) indicate that surface water will be diverted from discharge locations on the northern boundary of the site towards the eastern boundary of the site (Figure 2).

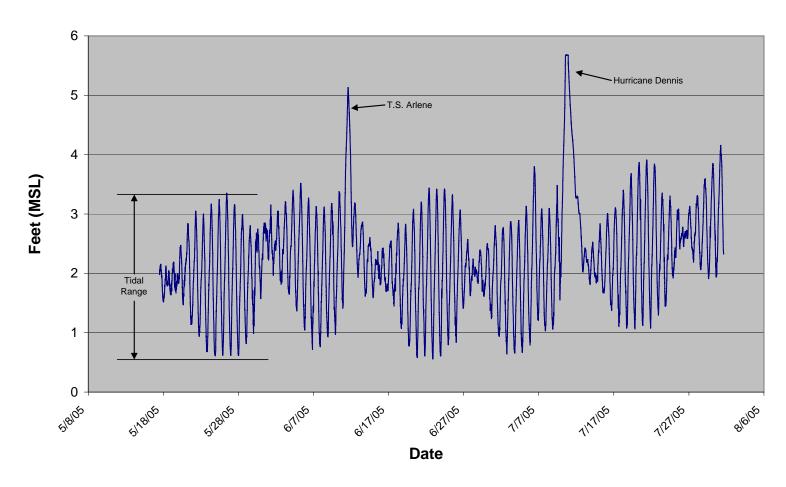


Exhibit 1. Example data from BPMB surface water monitoring location SW-04.

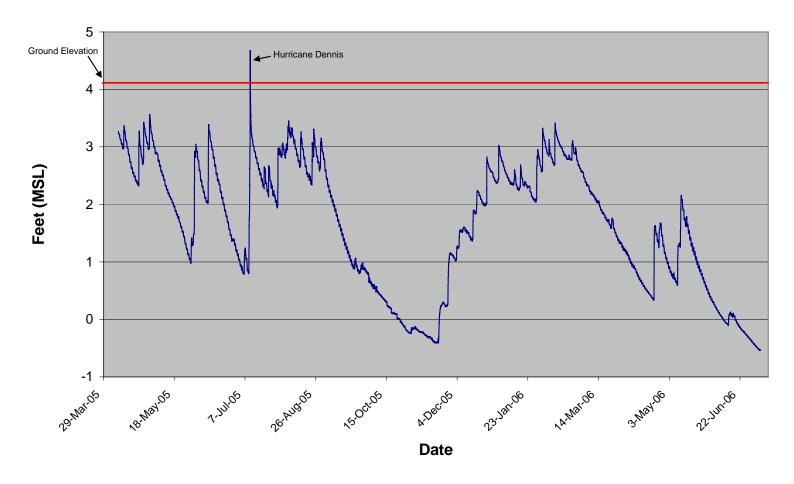


Exhibit 2. Example data from BPMB groundwater monitoring location MW-02.

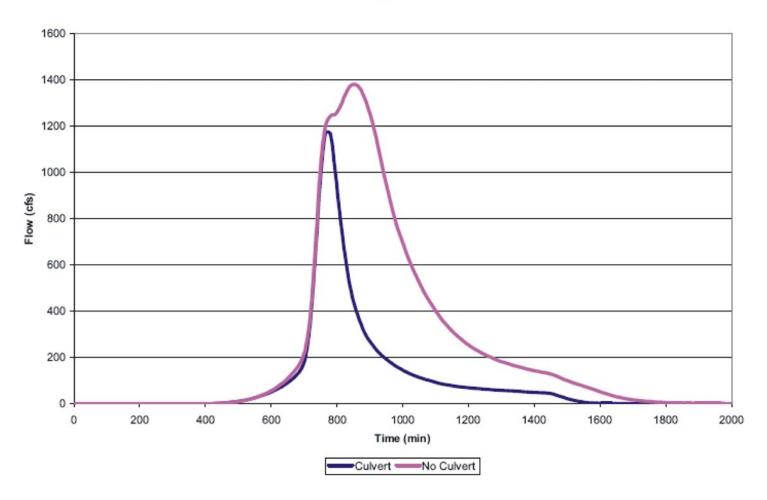


Exhibit 3. HEC-1 predicted pre- and post-culvert surface water discharge at BPMB.

III. SUMMARY DATA

- 1. Summary quantitative and qualitative data collected from the field in 2006 are included in Appendices A and B.
- Photographs of quantitative and qualitative transects are included in Appendices C and D.
- 3. Semiannual reports are included in Appendix E.

IV. CONCLUSIONS

Two years of active management have produced a dramatically changed landscape in Phases 1 and 2. High density pine plantations with little groundcover and unnaturally dense vegetation resulting from fire suppression have been restored to an open landscape. Groundcover species are reproducing normally, shrubs have been reduced to coppice sprouts, graminoids and forbs are increasing in coverage, and the remaining canopy species are increasing in basal area. Quantitative data calculations illustrate these trends – importance values are *increasing* for appropriate native groundcover species and for relative coverage of herbaceous groundcover species, and importance values are *decreasing* for relative coverage of shrubs. There is also evidence of normal flowering, fruiting, and reproduction of the groundcover species. Whenever relative coverage for herbaceous species was measured as decreasing in 2006, this was due to the time lag involved with regrowth since the last prescribed burn and the timing of the quantitative monitoring. Prescribed burning earlier in the summer results in larger plants and increased coverage, burning later in the year tends to produce more bare ground.

Additional timber harvesting and prescribed burning are scheduled for Phase 2. The uncertainty of weather patterns combined with regulatory restrictions on the timing of burns caused some restoration treatment delays. A regional drought in 2006 combined with County imposed burn bans caused some restoration treatment delays. Adaptive management will continue to be employed to move toward meeting final performance standards.

Monitoring of system hydrology at BPMB is progressing positively. A significant dataset of temporal behavior of surface water, groundwater, and precipitation has been and is continuing to be collected. Preliminary modeling of proposed hydrologic improvements has begun using this dataset to calibrate and test the hydrologic models. In summary, quantitative and qualitative results indicate that current management activities (prescribed fire, canopy reduction/timber activities, exotic species control, and mechanical reduction) have produced a landscape trending toward appropriate native plant community structure. Shrubs have been reduced to

coppice sprouts, canopy has been thinned to appropriate density, sunlight and air circulation have increased, and groundcover grasses and forbs are reproducing normally and increasing in coverage. Continued efforts to reduce shrubs in the groundcover (through mechanical means and prescribed burning) will be the key to continued successful regeneration of appropriate species. Overall, the landscape is trending toward the final performance standards.

Appendix A: Summary of 2006 Quantitative Transect Monitoring

Breakfast Point transect number BP1T1_MFW - Mixed Forested Wetland

Relative Percent Cover by vegetative classification:
Forbs 11.95%
Graminoids 10.34%
Vines 7.81%
Woody Plants 69.9%

Average Percent Cover of Bare Ground and Standing Water:

Bare ground 49.55% Open/standing water 26.2%

Species Richness: 28 species Average height of Shrubs: 1.44 meters

Trees per acres: 140

Breakfast Point transect number BP1T2_CF - Cypress Flat

Relative Percent Cover by vegetative classification:
Forbs 25.17%
Graminoids 65.09%
Woody Plants 9.75%

Average Percent Cover of Bare Ground and Standing Water:

Bare ground 43.97% Open/standing water 10.4%

Species Richness: 29 species Average height of Shrubs: 0.625 meters

Trees per acres: 5

Breakfast Point transect number BP1T3_MPF - Mesic Pine Flatwoods

Relative Percent Cover by vegetative classification:
Forbs 69.64%
Graminoids 10.77%
Vines 0.3%
Woody Plants 19.27%

Average Percent Cover of Bare Ground and Standing Water:

Bare ground 79.67%

Species Richness: 26 species Average height of Shrubs: 0.625 meters

Breakfast Point transect number BP1T4_HPF - Hydric Pine Flatwoods

Relative Percent Cover by vegetative classification:
Forbs 37.45%
Graminoids 43.22%
Vines 0.76%
Woody Plants 18.58%

Average Percent Cover of Bare Ground and Standing Water:

Bare ground 65.07%

Species Richness: 38 species
Average height of Shrubs: 0.625 meters

Trees per acres: 40

Breakfast Point transect number BP1T5_MPF - Mesic Pine Flatwoods

Relative Percent Cover by vegetative classification:
Forbs 10.54%
Graminoids 0.79%
Vines 0.07%
Woody Plants 88.62%

Average Percent Cover of Bare Ground and Standing Water:

Bare ground 44%

Species Richness: 19 species Average height of Shrubs: 0.625 meters

Trees per acres: 90

Breakfast Point transect number BP1T6_CF - Cypress Flat

Relative Percent Cover by vegetative classification:
Forbs 12.42%
Graminoids 76.99%
Vines 1.05%
Woody Plants 9.54%

Average Percent Cover of Bare Ground and Standing Water:

Bare ground 63.23%

Species Richness: 27 species Average height of Shrubs: 0.625 meters

Breakfast Point transect number BP1T7_ - Hydric Pine Flatwoods

Relative Percent Cover by vegetative classification:
Forbs 0.25%
Graminoids 82.93%
Vines 0.99%
Woody Plants 15.84%

Average Percent Cover of Bare Ground and Standing Water:

Bare ground 81.33%

Species Richness: 12 species Average height of Shrubs: 0.625 meters

Trees per acres: 40

Breakfast Point transect number BP1T8_HPF - Hydric Pine Flatwoods

Relative Percent Cover by vegetative classification:

Forbs 12.35%

Graminoids 80.36% Vines 0.22% Woody Plants 7.06%

Average Percent Cover of Bare Ground and Standing Water:

Bare ground 82.9%

Species Richness: 17 species
Average height of Shrubs: 0.625 meters

Trees per acres: 20

Breakfast Point transect number BP2T1_PM - Palustrine Marsh

Relative Percent Cover by vegetative classification:
Forbs 16.32%
Graminoids 83.5%
Woody Plants 0.18%

Average Percent Cover of Bare Ground and Standing Water:

Open/standing water 45.87%

Species Richness: 8 species
Average height of Shrubs: 0.625 meters

Breakfast Point transect number BP2T2_HPF - Hydric Pine Flatwoods

Relative Percent Cover by vegetative classification:
Forbs 12.89%
Graminoids 59.13%
Vines 2.19%
Woody Plants 25.79%

Average Percent Cover of Bare Ground and Standing Water:

Bare ground 83.6% Open/standing water 5.27%

Species Richness: 50 species Average height of Shrubs: 0.625 meters

Trees per acres: 110

Breakfast Point transect number BP2T3_MPF - Mesic Pine Flatwoods

Relative Percent Cover by vegetative classification:
Forbs 1.22%
Graminoids 76.46%
Vines 1.22%
Woody Plants 21.1%

Average Percent Cover of Bare Ground and Standing Water:

Bare ground 82.53%

Species Richness: 18 species Average height of Shrubs: 1.52 meters

Trees per acres: 800

Breakfast Point transect number BP2T4 CF - Cypress Flat

Relative Percent Cover by vegetative classification:
Forbs 10.08%
Graminoids 84.12%
Woody Plants 5.79%

Average Percent Cover of Bare Ground and Standing Water:

Open/standing water 57.97%

Species Richness: 21 species Average height of Shrubs: 1.05 meters

Breakfast Point transect number BP2T5_HPF - Hydric Pine Flatwoods

Relative Percent Cover by vegetative classification:
Forbs 7.26%
Graminoids 84.65%
Vines 2.86%
Woody Plants 5.2%

Average Percent Cover of Bare Ground and Standing Water:

Bare ground 14.57% Open/standing water 43.57%

Species Richness: 42 species Average height of Shrubs: 2.09 meters

Trees per acres: 120

Breakfast Point transect number BP2T6_MPF - Mesic Pine Flatwoods

Relative Percent Cover by vegetative classification:
Forbs 4.52%
Graminoids 25.14%
Vines 1.69%
Woody Plants 68.65%

Average Percent Cover of Bare Ground and Standing Water:

Bare ground 27.6%

Species Richness: 19 species Average height of Shrubs: 0.625 meters

Trees per acres: 80

Breakfast Point transect number BP2T7 CF - Cypress Flat

Relative Percent Cover by vegetative classification:
Forbs 11.55%
Graminoids 71.53%
Vines 1.51%
Woody Plants 15.38%

Average Percent Cover of Bare Ground and Standing Water:

Bare ground 33.1% Open/standing water 12.7%

Species Richness: 43 species Average height of Shrubs: 1.42 meters

Breakfast Point transect number BP2T8_TF - Hydric Pine Flatwoods

Relative Percent Cover by vegetative classification:
Forbs 17.99%
Graminoids 66.95%
Vines 0.3%
Woody Plants 14.79%

Average Percent Cover of Bare Ground and Standing Water:

Bare ground 78.6%

Species Richness: 20 species Average height of Shrubs: 1.68 meters

Trees per acres: 280

Breakfast Point transect number BP2T9 MPF - Mesic Pine Flatwoods

Relative Percent Cover by vegetative classification:
Forbs 19.32%
Graminoids 64.64%
Vines 1.98%
Woody Plants 14.09%

Average Percent Cover of Bare Ground and Standing Water:

Bare ground 46.63%

Species Richness: 31 species
Average height of Shrubs: 0.625 meters

Site Name:	Breakfast Poir	ast Point Plant community type: Hydric Pine Flatwoods								
Transect ID:	BPQT1_P1				Date and t	ate and time (am/pm): 11/8/2006			S ✓ AM	PM
 Weather: Temperature: 	Full Sun		Part Sun		☐ Cloudy ✓ 71-90 F		Cloudy a	nd Rain/Fog		
3. CANOPY % cover:		✓ Pine Plant	ation (Rows)		Manageo	d for Pine		Natural F	orest	
		Absent	0-1%	√ 1-5%	6-25%	26-50%	51-75%	76-100%		
4. Estimated height class	s of the majority	of TREES	using the fo	ollowing scal	e:		absent	3-5m	✓ 6-10m	>10m
			List 3	dominant TI	REE species	observed in o	canopy:			
 Pinus elliot 	tii		2.				3.			
5. Estimated height class	s of the majority	y of SUBCA	ANOPY usin	g the following	ng scale:		absent	✓ 3-5m	6-10m	>10m
List 3 dominant SUBCANOPY species observed:										
 Pinus elliot 	tii		2				3			
6. SHRUBS % cover:			Absent	0-1%	1-5%	6-25%	26-50%	√ 51-75%	76-100%	
			Li	ist 3 domina	nt SHRUB sp	pecies observ	ed:			
1. Illex vomito	oria		2.	. Myrica ceri	fera	a 3. Ilex glabra				
7. Estimated height class	s of the majority	of SHRUE	3S using the	following so	ale:		absent	05m	.6-1.5m	1.6-3m
		Lis	st 3 of the mo	ost common	SHRUB and	or TREE see	dlings observ	ved:		
1.			2.			3.				
8. GROUNDCOVER %	cover of gramin	oids (grass	ses, sedges a	and rushes):						
		Absent	0-1%	1-5%	6-25%	26-50%	51-75%	76-100%		
9. TOTAL GROUNDCO	VER % cover (i	including gr	raminiods an	d forbes):						
	L	Absent	0-1%	1-5%	6-25%	26-50%	51-75%	76-100%		
			List 4	dominant GF	ROUNDCOV	ER species ol	oserved:			
1	 Anthaenantia 	rufa			2	2. Ilex vomitor	ria			
3	Cladium spp				4	. Panicum ve	errucosum			
		L	ist 3 of the r	nost commo	n GROUND	COVER seedl	ings observe	d:		
1.			2.	•			3.	•		
			List t	he WEEDY	or RUDERA	L species obs	served:			
roal foot Doint Mitigation 2000	2 Annual Manitarir	a a Danart	2.				3.			

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Appendix B: Qualitative Monitoring Data Results

10. Tree density: 11. Tree health:	appropriate trees healthy	✓ inappropriate✓ trees stressed	Why?: too den Why?: too den	=	sparse wet	
12. Hydrologic indicat	rafted debris	sediment deposition elevated lichen lines	algal mat/aufwuchs aquatic fauna	aquatic bryotphytes tussocks/hummocks	aquatic plants secondary flow channels s/s/buttressed trunks/hypertrophied lenticles	
13. Water table: 14. Water color: 15. Water column:	✓ at the surface ✓ tannic non-tanr sphagnum present	below surface	Standing water: If cloudy, why?	present abs	sent other:	
16. Altered hydrology	3011 3003	idence / oxidation of muck priate vegetation	exposed roots lichen lines:		l due to soil subsidence normal	
			ppropriate vegetation:			
1.		2.		3.		
4.		5.		6.		
17. Wildlife usage and natural history observations: animal remains scratch marks frog calls notes on wildlife useage observed: Hawk, bumble bee, Monarch butterfly footprints scat herbivory observed arthropods observed reptiles observed mammals observed mammals observed						
18. Exotic species:	present / absent	resent must be georefere	anced and include the fo	allowing information:		
	пρ			•	L W . L	
Species:		Location		latitude	longitude	
% cover: 0-1%	1-5% 6-25%	26-50%51-75%	76-100% -	latitda	la marita da	
Species:		Location		latitude	longitude	
% cover:0-1%	1-5% 6-25%	26-50% 51-75% hniques to meet restora	76-100%			
	rai aspect of the site/tec regeneration occuring?			ammanuista 🔲		
Site is/has	•	yes no appropriately managed	species		oplemental planting/seeding needed ar-cut	
If planted	iii c suppi csscu	not bedded but manage		le: 0-5 yrs 6-1	0 yrs	
	Specific n	otes on restoration, obs			ques:	
Continue prescribed bu	rning as per mitigation pla	n				

Site Name:	Breakfast Point		Plant commun	nity type: Mesic	Pine Flatwoods		
Transect ID:	BPQT1_P2		Date and time ((am/pm):	11/8/200	6 🗸 AM	PM
 Weather: Temperature: 	Full Sun	Part Sun 51-70 F	☐ Cloudy ☑ 71-90 F		oudy and Rain/Fog -110 F		
3. CANOPY % cover:	Pine Pl	antation (Rows)	Managed for I	Pine	✓ Natural	Forest	
	Absent	0-1% 1-5%	6-25%	26-50% 51-	75% 76-100%	6	
4. Estimated height class	s of the majority of TRE	ES using the following so	ale:	abs	sent 3-5m	✓ 6-10m	>10m
		List 3 dominant	TREE species obse	erved in canopy:			
 Pinus elliot 	tii	2.			3.		
5. Estimated height class	s of the majority of SUB	CANOPY using the follow	wing scale:	✓ abs	sent 3-5m	6-10m	>10m
		List 3 dominan	t SUBCANOPY spe	ecies observed:			
1.		2.			3.		
6. SHRUBS % cover:		Absent 0-1%	☐ 1-5% ✓	6-25% 26-	50% 51-75%	76-100%	
		List 3 domir	nant SHRUB specie	s observed:			
 Myrica ceri 	fera	2. Ilex vomi	toria		3. Ilex glabra		
7. Estimated height class	s of the majority of SHR	UBS using the following	scale:	abs	sent 05m	✓ .6-1.5m	1.6-3m
		List 3 of the most commo	on SHRUB and/or T	REE seedlings of	bserved:		
 Myrica ceri 	fera	2. Pinus elli	iottii		3.		
8. GROUNDCOVER %	cover of graminoids (gra	asses, sedges and rushes	s):				
	✓ Absent		6-25%	26-50% 51-	75% 76-100%	6	
9. TOTAL GROUNDCO	VER % cover (including	graminiods and forbes):					
	Absent				75% 76-100%	6	
		List 4 dominant (GROUNDCOVER S	pecies observed	l:		
1	 Quercus minima 		2. _{Ile}	x glabra			
3	- Ilex vomitoria		4. Se	renoa repens			
		List 3 of the most comn	non GROUNDCOVI	ER seedlings ob	served:		
1.		2.			3.		
		List the WEED	Y or RUDERAL spe	ecies observed:			
rookfoot Point Mitigation 2006	C Annual Manitarina Danari	2.			3.		

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Appendix B: Qualitative Monitoring Data Results

10. Tree density: 11. Tree health:	appropriate trees healthy	inappropriate trees stressed	Why?: too den:			
12. Hydrologic indicat 13. Water table: 14. Water color: 15. Water column: 16. Altered hydrology	ors: hydric soils rafted debris water stained at the surface tannic non-tanr sphagnum present soil subs	sediment deposition elevated lichen lines vegetation/ stain lines below surface cloudy utricularia present idence / oxidation of muck	algal mat/aufwuchs	aquatic bryotphytes tussocks/hummocks tations/adventitious roots/ present abser suspended sedimer	aquatic plants secondary flow channels buttressed trunks/hypertrophied lenticles nt other:	
1.		2.	opropriate vogetation.	3.		
4. 5. 6. 17. Wildlife usage and natural history observations: footprints scat herbivory observed bird nests/calls fish observed arthropods observed reptiles observed mammals observed Notes on wildlife useage observed:						
Warbler		Notes on v	mame useage observe	u.		
18. Exotic species:	present / absent	resent must be georefere	enced and include the fo	llowing information:		
Species: % cover: 0-1%	1-5% 6-25%	Location 26-50% 51-75%		latitude	longitude	
Species:		Location		latitude	longitude	
% cover: □ 0-1% □ 1-5% □ 6-25% □ 26-50% □ 51-75% □ 76-100% 19. Notes on the general aspect of the site/techniques to meet restoration goals:						
Site is/has If planted	I: bedded and planted endations for restoration	yes no no appropriately managed not bedded but managed prescribed burn notes on restoration, obs	secondary growth ad for pine ~Tree ago mechanical treatment	planted clear e: 0-5 yrs 6-10 other:	yrs	
Reduce canopy as per	•			ge		

Site Name:	Breakfast Point		t ype: Hydric Pine F	: Hydric Pine Flatwoods			
Transect ID:	BPQT2_P1		Date and time (am	/pm):	11/8/2006	✓ AM	PM
1. Weather:	✓ Full Sun	Part Sun	Cloudy	Cloudy and	d Rain/Fog		
2. Temperature:	20-50 F	51-70 F	✓ 71-90 F	91-110 F			
3. CANOPY % cover:	✓ Pine PI	antation (Rows)	Managed for Pine		Natural Fo	rest	
	Absent	0-1% 1-5%	6-25% 26-	50% 51-75%	76-100%		
4. Estimated height class	4. Estimated height class of the majority of TREES using the following scale:				3-5m	✓ 6-10m	>10m
	List 3 dominant TREE species observed in canopy:						
1. Pinus elliottii 2.			3.				
5. Estimated height class	s of the majority of SUE	CANOPY using the follo	wing scale:	absent	✓ 3-5m	6-10m	>10m
List 3 dominant SUBCANOPY species observed:							
 Myrica ceri 	fera	2. Pinus el	liottii	3.			
6. SHRUBS % cover:		Absent 0-1%	1-5% 4-2	5% 26-50%	51-75%	76-100%	
		List 3 dom	inant SHRUB species of	served:			
 Myrica ceri 	fera	2. Ilex von	nitoria	3.			
7. Estimated height clas	s of the majority of SHR	UBS using the following	scale:	absent	05m	√ .6-1.5m	1.6-3m
		List 3 of the most comm	on SHRUB and/or TRE I	seedlings observe	ed:		
 Myrica ceri 	fera	2.		3.			
8. GROUNDCOVER $\%$	cover of graminoids (gra	asses, sedges and rushe	es):				
	Absent	0-1% 1-5%	6-25% 26-	50% 51-75%	76-100%		
9. TOTAL GROUNDCO	VER % cover (including	graminiods and forbes)	:				
	Absent				√ 76-100%		
		List 4 dominant	GROUNDCOVER spec	es observed:			
1	 Spartina patens 		2. Antha	enanthia rufu			
3	Juncus romarianus		4.				
		List 3 of the most com	mon GROUNDCOVER	eedlings observed:	:		
1.		2.		3.			
		List the WEEL	Y or RUDERAL specie	s observed:			
roal-fact Daint Witigation 2000	Annual Manitarina Danar	2.		3.			

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Appendix B: Qualitative Monitoring Data Results

10. Tree density:appropriateinappropriate11. Tree health:trees healthytrees stressed	Why?: ✓ too dense ✓ too sparse ✓ too wet					
12. Hydrologic indicators: Application Application Application	ion algal mat/aufwuchs aquatic bryotphytes aquatic plants nes aquatic fauna tussocks/hummocks secondary flow channels morphological plant adaptations/adventitious roots/buttressed trunks/hypertrophied lenticles Standing water: present absent If cloudy, why? suspended sediments other:					
1. 2.	3.					
4. 5. 6. 17. Wildlife usage and natural history observations: footprints scat herbivory observed bird nests/calls fish observed animal remains scratch marks frog calls arthropods observed reptiles observed mammals observed Notes on wildlife useage observed:						
Bullfrog, locust, crickets, box turtle						
18. Exotic species: present absent If present must be geor	referenced and include the following information:					
Species: Loca	ation: latitude longitude					
	ation: latitude longitude					
19. Notes on the general aspect of the site/techniques to meet res						
Is natural regeneration occuring? Site is/has: fire suppressed appropriately man planted: not bedded but man prescribed burn	and:					
Specific notes on restoration Continue prescribed burning and canopy reduction as per the mitigation	n, observations, or adaptive management techniques:					

Site Name:	Breakfast Point	Plant community type: Mesic Pine Flatwoods						
Transect ID:	BPQT2_P2): 11/8/2	006 🗹 ам	PM			
1. Weather:	✓ Full Sun	Part Sun	Cloudy	Cloudy and Rain/F	og			
2. Temperature:	20-50 F	51-70 F	✓ 71-90 F	91-110 F				
3. CANOPY % cover	Pine Pla	antation (Rows)	✓ Managed for Pine	☐ Natu	ral Forest			
	Absent	0-1% 1-5%	6-25% 26-50%	51-75% 76-10	00%			
4. Estimated height c	lass of the majority of	TREES using the follow		absent 3-5m	6-10m	✓ >10m		
		List 3 dominant T	REE species observed	n canopy:				
 Pinus elliotti 	İ	2.		3.				
5. Estimated height c	lass of the majority of	SUBCANOPY using the		absent 3-5m	√ 6-10m	>10m		
List 3 dominant SUBCANOPY species observed:								
 Pinus elliotti 	İ	2.		3.	_			
6. SHRUBS % cover	:	Absent 0-1%	1-5% 6-25%	26-50% 🗸 51-7	5% 76-1009	%		
		List 3 domina	nt SHRUB species obse	erved:				
1. Lyonia ferru	genia	2. Ilex vomitor	ria	3. Lyonia lu	ıcida			
7. Estimated height c		SHRUBS using the follo		absent 05r	n 🗹 .6-1.5m	√ 1.6-3m		
	List	3 of the most common	SHRUB and/or TREE s	eedlings observed:				
1.		2.		3.				
8. GROUNDCOVER % cover of graminoids (grasses, sedges and rushes):								
	✓ Absent		6-25% 26-50%	51-75% 76-10	00%			
9. TOTAL GROUNDCO	-	graminiods and forbes):						
	Absent		6-25% 26-50%		00%			
List 4 dominant GROUNDCOVER species observed:								
•	I. Lyonia lucida		2. Ilex glabra					
3. Serenoa repens 4.								
List 3 of the most common GROUNDCOVER seedlings observed:								
1.		2.		3.				
List the WEEDY or RUDERAL species observed:								
1		2		3				

10. Tree density: 11. Tree health:	appropriate trees healthy	✓ inappropriate ✓ trees stressed	Why?: too den		oo sparse oo wet		
12. Hydrologic indi	rafted debris	sediment deposition elevated lichen lines vegetation/ stain lines	algal mat/aufwuchs aquatic fauna morphological plant adapt	aquatic bryotphyte tussocks/hummock			
13. Water table:	at the surface	below surface	Standing water:		ž, ,		
14. Water color:	tannic non-tan	nic/clear cloudy	If cloudy, why?	suspended sedi	ments other:		
15. Water column:	sphagnum present	utricularia present		·			
16. Altered hydrolo	=	sidence / oxidation of muck priate vegetation	exposed roots lichen lines:		all due to soil subsidence bnormal		
			ppropriate vegetation	91			
1.		2.		3.			
4.		5.		6.			
17. Wildlife usage and natural history observations:							
		Notes on v	wildlife useage observ	/ed:			
Turkey vulture, cardinal, Blue heron, mosquitos							
18. Exotic species: present absent If present must be georeferenced and include the following information:							
Species:		Locatio	n:	latitude	longitude		
% cover :	1-5%6-25%	26-50% 51-75%	76-100%		•		
Species:		Locatio	n:	latitude	longitude		
% cover: 0-1%	1-5% 6-25%	26-50% 51-75%	76-100%				
19. Notes on the general aspect of the site/techniques to meet restoration goals:							
Is natural regeneration occuring? yes and: species appropriate supplemental planting/seeding needed							
Site is/has: I fire suppressed appropriately managed secondary growth planted clear-cut							
	d: 🗸 bedded and planted	not bedded but manag	· ·		-10 yrs 🗸 11-20 yrs 🗌 20+ yrs		
Recommendations for restoration: prescribed burn mechanical treatment other:							
Specific notes on restoration, observations, or adaptive management techniques:							
Continue prescribed burning and canopy reduction as per the mitigation plan							

Site Name:	Breakfast Point	ast Point Plant community type: Hydric Pine Flatwoods						
Transect ID:	BPQT2_P3	Date and time (am/pm):			006 🗸 AM 💮 PM			
1. Weather: 2. Temperature:	Full Sun	Part Sun	☐ Cloudy √ 71-90 F	Cloudy and Rain/Foo				
3. CANOPY % cover:		Plantation (Rows)	Managed for Pine	Natura	al Forest			
	Abse	_ `	6-25% 26-5					
4. Estimated height clas	s of the majority of TR	EES using the following so		absent 3-5m	6-10m >10m			
List 3 dominant TREE species observed in canopy:								
1. Pinus elliot	tii	2.		3.				
5. Estimated height clas	s of the majority of SU	BCANOPY using the follo	wing scale:	absent 3-5m	☐ 6-10m			
List 3 dominant SUBCANOPY species observed:								
1. Myrica ceri	fera	2. Pinus ell	iottii	3.				
6. SHRUBS % cover:		Absent 0-1%	1-5% 46-25	% 26-50% 51-75	% 76-100%			
		List 3 domii	nant SHRUB species ob	served:				
 Myrica ceri 	fera	2. Illex vom	itoria	3.				
7. Estimated height class of the majority of SHRUB has not be following scale:			scale:	absent 05m	.6-1.5m 🗸 1.6-3m			
		List 3 of the most commo	on SHRUB and/or TREE	seedlings observed:				
1.		2.		3.				
8. GROUNDCOVER %	cover of graminoids (g	rasses, sedges and rushe	s):					
	Abse		6-25% 26-5	0% 🗹 51-75% 🗌 76-100	0%			
9. TOTAL GROUNDCO	_	ng graminiods and forbes):						
	Abse		6-25% 26-5		0%			
List 4 dominant GROUNDCOVER species observed:								
1. Pluchea sp 2. Panicu			n spp					
3. Juncus roemarianus 4.								
List 3 of the most common GROUNDCOVER seedlings observed:								
1.		2.		3.				
List the WEEDY or RUDERAL species observed:								
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Appendix B: Qualitative Monitoring Data Results

10. Tree density: 11. Tree health:	appropriate trees healthy	inappropriate trees stressed	Why?: too der		too sparse too wet		
12. Hydrologic indicat 13. Water table: 14. Water color: 15. Water column: 16. Altered hydrology	ors: y hydric soils rafted debris water stained at the surface tannic non-tanr sphagnum present soil subs	sediment deposition elevated lichen lines vegetation/ stain lines below surface cloudy utricularia present idence / oxidation of muck	algal mat/aufwuchs	aquatic bryotpl tussocks/humn tations/adventitiou present suspended abnormal tr	nytes aquatic plants nocks secondary flow channels s roots/buttressed trunks/hypertrophic absent		
1.		2.	ppropriate regetation.	3.			
4. 5. 6. 17. Wildlife usage and natural history observations: footprints scat herbivory observed reptiles observed mammals observed animal remains scratch marks frog calls arthropods observed reptiles observed mammals observed nammals observed							
mockinbird and crickets		110100 011 1	ae ueeage ebee. re	74.			
18. Exotic species:	✓ present absent						
		resent must be georefer		•			
Species: Sapium se			: SAP BPQT-4	latitude	longitude	9	
% cover: 0-1% Species: % cover: 0-1% 19. Notes on the gene	1-5% 6-25% 1-5% 6-25% ral aspect of the site/tec	☐ 26-50% ☐ 51-75% Location ☐ 26-50% ☐ 51-75% chniques to meet restora	76-100%	latitude	longitud	е	
ls natural r	egeneration occuring?	☐ yes ✓ no	. —	appropriate [supplemental planting/seeding need	ded	
If planted	i: fire suppressed i: bedded and planted endations for restoration	appropriately managed not bedded but manage			clear-cut 11-20 yrs 20+ yr	s	
Specific notes on restoration, observations, or adaptive management techniques:							
Continue prescribed burning and canopy reduction as per the mitigation plan							

Site Name:	Breakfast Point	st Point Plant community type: Hydric Pine Flatwoods						
Transect ID:	BPQT3_P1		Date and time (am/p	n): 11/8/2	006 AM	✓ PM		
 Weather: Temperature: 	Full Sun 20-50 F	Part Sun 51-70 F	☐ Cloudy ✓ 71-90 F	Cloudy and Rain/Fo	g			
3. CANOPY % cover:	✓ Pine	e Plantation (Rows)	Managed for Pine	✓ Natur	al Forest			
	Abs	ent 0-1% 1-5%	6-25% 26-50	% 🗹 51-75% 🗌 76-10	0%			
4. Estimated height class	s of the majority of T	REES using the following so	cale:	absent 3-5m	6-10m	✓ >10m		
		List 3 dominant	TREE species observed	n canopy:				
 Pinus elliot 	tii	2. Magnolia	a virginiana	3.				
5. Estimated height class	s of the majority of S	UBCANOPY using the follo	wing scale:	absent 3-5m	6-10m	>10m		
List 3 dominant SUBCANOPY species observed:								
 Pinus elliot 	tii	2. Magnolia	a virginiana	3.				
6. SHRUBS % cover:		Absent 0-1%	1-5% 6-25%	26-50% 51-75	% 76-100%	6		
		List 3 domi	nant SHRUB species obs	erved:				
1. Cyrilla racemiflora2. Nyssa ursina3. Myrica cerifera								
7. Estimated height class of the majority of SHRUBS using the following scale:				absent 05n	.6-1.5m	1.6-3m		
		List 3 of the most commo	on SHRUB and/or TREE s	eedlings observed:				
1.		2.			3.			
8. GROUNDCOVER $\%$	cover of graminoids (grasses, sedges and rushe	s):					
	✓ Abs	ent 0-1% 1-5%	6-25% 26-50	% 51-75% 76-10	0%			
9. TOTAL GROUNDCOVER % cover (including graminiods and forbes):								
	Abs	ent 0-1% 4 1-5%	6-25% 26-50	% 51-75% 76-10	0%			
List 4 dominant GROUNDCOVER species observed:								
1. Osmunda sp. 2. Toxicode			endron radicans					
3								
List 3 of the most common GROUNDCOVER seedlings observed:								
1.		2.		3.				
List the WEEDY or RUDERAL species observed:								
roal-fact Daint Witigation 2000	Annual Manitarina Day	2.		3.				

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10. Tree density: 11. Tree health:	appropriate trees healthy	inappropriate trees stressed	Why?: doo den		oo sparse oo wet
12. Hydrologic indicat 13. Water table: 14. Water color: 15. Water column: 16. Altered hydrology:	ors: hydric soils rafted debris water stained at the surface tannic non-tanr sphagnum present soil subs	sediment deposition elevated lichen lines vegetation/ stain lines below surface cloudy utricularia present idence / oxidation of muck	algal mat/aufwuchs	aquatic bryotphyte tussocks/hummock tations/adventitious ro present / al suspended sedi	s aquatic plants s secondary flow channels ots/buttressed trunks/hypertrophied lenticles bsent
1.		2.	ppropriate regetation.	3.	
4. 17. Wildlife usage and animal re	natural history observatio	5. Ins: footprints marks frog calls		ods observed re	ird nests/calls
Deer , Warbler species,	scorpion		ao accago caco. re		
18. Exotic species:	present absent	resent must be georefere	anad and include the fo	llowing information:	
Species	пр	Location		latitude	longitude
Species: % cover: ☐ 0-1%	1-5% 6-25%	26-50%	76-100%	iatitude	iongitude
Species:		Location		latitude	longitude
% cover: 0-1%	1-5% 6-25%	26-50% 51-75%	76-100%		
		hniques to meet restora			
Site is/has If planted	l: // bedded and planted endations for restoration	prescribed burn	secondary growth ed for pine ~Tree ago mechanical treatment	planted c e: 0-5 yrs 6 other:	upplemental planting/seeding needed lear-cut -10 yrs 11-20 yrs 20+ yrs
	•	otes on restoration, obs	ervations, or adaptive		niques:
Continue prescribed bu	rning and canopy reduction	on as per the mitigation pla	an		

Site Name:	Breakfast Point		Plant comm	unity type:	Hydric Pine	Flatwoods			
Transect ID:	BPQT3_P2		Date and time	e (am/pm):		11/8/2004	AM	✓ PM	
1. Weather:	✓ Full Sun	Part Sun	Cloudy		Cloudy a	nd Rain/Fog			
2. Temperature:	20-50 F	51-70 F	✓ 71-90 F		91-110 F				
3. CANOPY % cover:	✓ Pine	Plantation (Rows)	Managed fo	or Pine		Natural F	orest		
	Abse	ent 0-1% 1-5%	6-25%	26-50%	51-75%	76-100%			
4. Estimated height class	s of the majority of TF	REES using the following s	cale:		absent	3-5m	✓ 6-10m	>10m	
		List 3 dominan	t TREE species ob	served in c	anopy:				
 Pinus elliot 	tii	2.			3				
5. Estimated height class	s of the majority of S l	JBCANOPY using the follo	owing scale:		absent	✓ 3-5m	✓ 6-10m	>10m	
List 3 dominant SUBCANOPY species observed:									
 Pinus elliot 	tii	2.			3	•			
6. SHRUBS % cover:		Absent 0-1%	1-5%	√ 6-25%	26-50%	51-75%	76-100%		
List 3 dominant SHRUB species observed:									
1. Nyssa ursii	na	2. Myrica	cerifera		3	•			
7. Estimated height class	s of the majority of Sh	HRUBS using the following	scale:		absent	05m	√ .6-1.5m	✓ 1.6-3m	
		List 3 of the most comm	on SHRUB and/or	TREE seed	dlings observ	ved:			
1.		2.			3.				
8. GROUNDCOVER %	cover of graminoids (grasses, sedges and rush	es):						
	Abse	ent 0-1% 1-5%	6-25%	26-50%	51-75%	76-100%			
9. TOTAL GROUNDCO	VER % cover (includi	ing graminiods and forbes)	:						
	Abse	ent 0-1% 1-5%	6-25%	26-50%	<u></u> 51-75%	76-100%			
		List 4 dominant	GROUNDCOVER	species ob	served:				
1	· Cladium jamaicense	e	2. J	Juncus roen	narianus				
3	- Rubus sp		4. _N	Myrica hete	rophylla				
	·	List 3 of the most com	mon GROUNDCO	VER seedli	ngs observe	d:			
1.		2.			3				
	List the WEEDY or RUDERAL species observed:								
roal-fact Daint Witigation 2000	Annual Manitarina Dan	2.			3				

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10. Tree density: 11. Tree health:	appropriate trees healthy	inappropriate	Why?: too dens		sparse wet
12. Hydrologic indicat 13. Water table: 14. Water color: 15. Water column: 16. Altered hydrology	hydric soils rafted debris water stained at the surface tannic non-tanr sphagnum present soil subs	sediment deposition elevated lichen lines vegetation/ stain lines below surface cloudy utricularia present idence / oxidation of muck	algal mat/aufwuchs aquatic fauna morphological plant adapt Standing water: If cloudy, why? exposed roots lichen lines:	aquatic bryotphytes tussocks/hummocks tations/adventitious roots present abse suspended sedime	aquatic plants secondary flow channels /buttressed trunks/hypertrophied lenticles
1.		2.	., .,	3.	
4.		5.		6.	
17. Wildlife usage and animal response and crickets 18. Exotic species:	present / absent	narks frog calls Notes on w	✓ arthropo rildlife useage observed	d:	nests/calls
	If p	resent must be georefere	enced and include the fo	llowing information:	
Species:	_	Location	:	latitude	longitude
% cover: 0-1% Species:	1-5%6-25%	26-50% 51-75% Location	76-100%	latitude	longitude
% cover: 0-1%	1-5% 6-25%	26-50% 51-75%	76-100%		
		hniques to meet restora			
Site is/has If planted	l: bedded and planted endations for restoration	prescribed burn	secondary growth d for pine ~Tree age mechanical treatment	planted clea e: 0-5 yrs 6-10 other:	
Continue prescribed bu	-	otes on restoration, obs	-	management techniq	ues:

Site Name:	Breakfast Point	it			Plant com	munity type	: Hydric Pine	Flatwoods		
Transect ID:	BPQT3_P3				Date and t	ime (am/pm)	:	11/8/2006	S AM	✓ PM
 Weather: Temperature: 	Full Sun 20-50 F]	Part Sun		☐ Cloudy ✓ 71-90 F		✓ Cloudy a	•		
3. CANOPY % cover:	✓	Pine Plantat	tion (Rows)		Manageo	d for Pine		Natural F	orest	
		Absent	0-1%	1-5%	√ 6-25%	26-50%	51-75%	76-100%		
4. Estimated height class	s of the majority	of TREES	using the fo	llowing scal	e:		absent	3-5m	✓ 6-10m	>10m
			List 3	dominant TI	REE species	observed in o	canopy:			
 Pinus elliot 	tii		2.				3			
5. Estimated height class	s of the majority	of SUBCA	NOPY using	g the following	ng scale:		absent	✓ 3-5m	✓ 6-10m	>10m
	List 3 dominant SUBCANOPY species observed:									
 Pinus elliot 	tii	_	2.	. Sapium sel	biferum		3			
6. SHRUBS % cover:			Absent	0-1%	1-5%	6-25%	√ 26-50%	51-75%	76-100%	
List 3 dominant SHRUB species observed:										
 Myrica ceri 	fera		2.				3			
7. Estimated height class	s of the majority	of SHRUBS	S using the	following so	ale:		absent	05m	.6-1.5m	√ 1.6-3m
		List	3 of the mo	st common	SHRUB and	or TREE see	dlings observ	ved:		
 Sapium sel 	oiferum		2.				3.			
8. GROUNDCOVER $\%$	cover of gramino	oids (grasse	s, sedges a	and rushes):						
		Absent	0-1%	1-5%	6-25%	26-50%	51-75%	76-100%		
9. TOTAL GROUNDCO	VER % cover (in	ncluding gra	miniods an	d forbes):						
	L	Absent	0-1%	1-5%	6-25%	26-50%	<u></u> 51-75%	√ 76-100%		
			List 4 d	dominant GF	ROUNDCOV	ER species of	oserved:			
1	· Panicum verrud	cosum			2	2. Juncus rom	arianus			
3	Pluchea spp				4	. Andropogo	n sp.			
		Lis	st 3 of the n	nost commo	n GROUND (COVER seedl	ings observe	ed:		
1.			2.				3			
			List t	he WEEDY	or RUDERA I	L species obs	erved:			
rookfoot Point Mitigation 2006	Annual Manitarina	a Danart	2.				3			

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10. Tree density: 11. Tree health:	appropriate trees healthy	inappropriate trees stressed	Why?: too der		too sparse too wet	
12. Hydrologic indicat 13. Water table: 14. Water color: 15. Water column: 16. Altered hydrology	hydric soils rafted debris water stained at the surface tannic non-tanr sphagnum present soil subs	sediment deposition elevated lichen lines vegetation/ stain lines below surface nic/clear cloudy utricularia present sidence / oxidation of muck	algal mat/aufwuchs aquatic fauna morphological plant adap Standing water: If cloudy, why? exposed roots lichen lines: ppropriate vegetation:	aquatic bryotph tussocks/humn tations/adventitiou present suspended: abnormal tr	hytes aquatic plant nocks secondary flo s roots/buttressed trunks/l absent	ow channels hypertrophied lenticles
1.		2.	pp. op.ia.o rogetane	3.		
4.		5.		6.		
17. Wildlife usage and animal referal hog scat, mosquit		marks frog calls		ory observed [ods observed [ed:	bird nests/calls reptiles observed	fish observed mammals observed
18. Exotic species:	✓ present absent					
		resent must be georefer	enced and include the fo	ollowing informati	on:	
Species: Sapium se	biferum	Location	:	latitude		longitude
% cover: 0-1%		26-50% 51-75%	76-100%			
Species:		Location	:	latitude		longitude
% cover: □ 0-1%	1-5%6-25%	☐ 26-50% ☐ 51-75%	76-100%			
		hniques to meet restora	. —		\neg	
Site is/has If planted	regeneration occuring? if if if if if if if if if if if if if i	yes no appropriately managed not bedded but manage brescribed burn	secondary growth		supplemental planting/s clear-cut 6-10 yrs 11-20 yrs	seeding needed
		notes on restoration, obs	ervations, or adaptive		chniques:	
Continue prescribed bu	rning and canopy reduction	on as per the mitigation pla	an			

Site Name:	Breakfast Point			Plant com	munity type:	: Wet Prairie	/ Seepage S	lope	
Transect ID:	BPQT3_P4			Date and ti	me (am/pm):	:	10/31/2006	S AM	✓ PM
1. Weather:	Full Sun	✓ Part Sun		Cloudy		Cloudy a	nd Rain/Fog		
2. Temperature:	20-50 F	51-70 F		✓ 71-90 F		91-110 F			
3. CANOPY % cover:	Pine Plar	ntation (Rows)		Managed	I for Pine		Natural F	orest	
	✓ Absent	0-1%	1-5%	6-25%	26-50%	51-75%	76-100%		
4. Estimated height clas	s of the majority of TREE	S using the fo	ollowing scale	e:		absent	✓ 3-5m	6-10m	>10m
		List 3	dominant TF	REE species	observed in o	canopy:			
1.		2	<u>.</u>			3.			
5. Estimated height clas	s of the majority of SUBC	ANOPY usin	ng the followin	ng scale:		absent	3-5m	6-10m	>10m
		List	3 dominant S	UBCANOPY	species obs	erved:			
1.		2	2.			3.			
6. SHRUBS % cover:		Absent	0-1%	1-5%	√ 6-25%	26-50%	51-75%	76-100%	
		L	ist 3 dominar	nt SHRUB sp	ecies observ	ed:			
1. Myrica ceri	fera	2				3.			
7. Estimated height clas	s of the majority of SHRU	IBS using the	following sca	ale:		absent	05m	.6-1.5m	✓ 1.6-3m
	L	ist 3 of the mo	ost common s	SHRUB and	or TREE see	dlings observ	ved:		
1.		2				3.			
8. GROUNDCOVER %	cover of graminoids (gras	ses, sedges	and rushes):						
	Absent	0-1%	1-5%	6-25%	26-50%	<u></u> 51-75%	√ 76-100%		
9. TOTAL GROUNDCO	VER % cover (including of	graminiods ar	nd forbes):						
	Absent	0-1%	1-5%	6-25%	26-50%	51-75%	76-100%		
		List 4	dominant GR	OUNDCOVE	ER species of	oserved:			
1	 Aristida stricta 			2	llex glabra				
3	Liatris spicata			4	· serenoa rep	pens			
	·	List 3 of the i	most commoi	n GROUND (COVER seedl	ings observe	d:		
1.		2)			3.			
		List	the WEEDY o	or RUDERAL	_ species obs	erved:			
1. Andropogo reakfast Point Mitigation 2006	n S Appual Manitaring Basert	2				3.			
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10. Tree density: 11. Tree health:	appropriate trees healthy	inappropriate trees stressed	Why?: too den		too sparse	
12. Hydrologic indicat 13. Water table: 14. Water color: 15. Water column: 16. Altered hydrology:	ors: hydric soils rafted debris water stained at the surface tannic non-tanr sphagnum present soil subs	sediment deposition elevated lichen lines vegetation/ stain lines below surface cloudy utricularia present idence / oxidation of muck	algal mat/aufwuchs aquatic fauna morphological plant adap Standing water: If cloudy, why? exposed roots lichen lines: ppropriate vegetation:	present suspended	mocks secondary flows roots/buttressed trunks/vabsent	ow channels hypertrophied lenticles
1.		2.	ppropriate regetation.	3.		
4. 17. Wildlife usage and animal resparrows, chickadees	natural history observatio	5. Ins: footprints		ods observed	bird nests/calls reptiles observed	fish observed mammals observed
18. Exotic species:	✓ present absent					
		resent must be georefere		•	ion:	
Species: Sabium se		Location		latitude		longitude
% cover: 0-1% Species: % cover: 0-1% 19. Notes on the gene	1-5% 6-25% 1-5% 6-25% ral aspect of the site/tec	26-50% 51-75% Location 26-50% 51-75% hniques to meet restora	76-100%	latitude		longitude
	egeneration occuring?	yes no		appropriate	supplemental planting/s	seeding needed
Site is/has If planted Recomme	iii c suppi csscu	appropriately managed not bedded but manage prescribed burn	· · · · · · · · · · · · · · · · · · ·		clear-cut 6-10 yrs 11-20 yrs	s 20+ yrs
	Specific n	otes on restoration, obs			chniques:	
Continue prescribed bu	rning as per the mitigation	ı plan				

Site Name:	Breakfast Point		Plant commu	unity type:	Cypress Fla	at				
Transect ID:	BPQT4_P1		Date and time	e (am/pm):		11/1/2006	S AM	✓ PM		
1. Weather:	Full Sun	✓ Part Sun	Cloudy		Cloudy a	nd Rain/Fog				
2. Temperature:	20-50 F	51-70 F	✓ 71-90 F		91-110 F					
3. CANOPY % cover:	Pine F	Plantation (Rows)	Managed fo	r Pine		✓ Natural F	orest			
	Abser	ıt 🗸 0-1% 🗌 1-5%	6-25%	26-50%	51-75%	76-100%				
4. Estimated height class	s of the majority of TRI	EES using the following s	cale:		absent	3-5m	✓ 6-10m	√ >10m		
		List 3 dominan	t TREE species ob	served in c	anopy:					
1. Taxodium	ascendens	2.			3	•				
5. Estimated height class	s of the majority of SU	BCANOPY using the follo	wing scale:		✓ absent	3-5m	6-10m	>10m		
	List 3 dominant SUBCANOPY species observed:									
1.		2.			3					
6. SHRUBS % cover:		Absent 0-1%	1-5%	√ 6-25%	26-50%	51-75%	76-100%			
List 3 dominant SHRUB species observed:										
 Myrica ceri 	fera	2. Nyssa u	ırsina		3	. Ilex myrtifol	ia			
7. Estimated height class	ss of the majority of SH	RUBS using the following	scale:		absent	05m	✓ .6-1.5m	1.6-3m		
		List 3 of the most comm	on SHRUB and/or	TREE seed	dlings obser	/ed:				
1. Fraxinus ca	aroliniana	2. Myrica o	cerifera		3. Ilex vomitoria					
8. GROUNDCOVER %	cover of graminoids (gr	asses, sedges and rushe	es):							
	Abser	ot 0-1% 1-5%	6-25%	26-50%	51-75%	76-100%				
9. TOTAL GROUNDCO	VER % cover (includin	g graminiods and forbes)	:							
	Abser	t 0-1% 1-5%	6-25%	26-50%	✓ 51-75%	76-100%				
		List 4 dominant	GROUNDCOVER	species ob	served:					
1	 Stillingia aquatica 		2. A	mphicarpu	ım muhlenbe	rgianum				
3	Rhynchospora spp.		4. C	Cladium jam	naicense					
		List 3 of the most com	mon GROUNDCO	VER seedli	ings observe	d:				
1.		2.			3	•				
	List the WEEDY or RUDERAL species observed:									
real-fact Daint Mitigation 200	S Annual Manitaring Dana	<u>.</u> 2.			3					

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10. Tree density: 11. Tree health:	✓ appropriate✓ trees healthy	inappropriate trees stressed	Why?: too den					
12. Hydrologic indicat	rafted debris	✓ sediment deposition ✓ elevated lichen lines	algal mat/aufwuchs aquatic fauna	✓ aquatic bryotphytes ✓ tussocks/hummocks	aquatic plants secondary flow channels			
13. Water table:14. Water color:15. Water column:16. Altered hydrology:	✓ at the surface ✓ tannic non-tanr sphagnum present	vegetation/ stain lines below surface nic/clear cloudy utricularia present idence / oxidation of muck	Standing water: If cloudy, why?	✓ present ☐ absen☐ suspended sediment				
	=	riate vegetation	lichen lines:	typical abnor	mal			
			ppropriate vegetation:	_				
1.		2.		3.				
4.		5		6.				
17. Wildlife usage and natural history observations: animal remains scratch marks frog calls Notes on wildlife useage observed: Scat herbivory observed reptiles observed mammals observed mammals observed mammals observed								
18. Exotic species:	present absent	resent must be georefer	aneed and include the fo	Mowing information:				
Charles	п р	•		latitude	langituda			
Species: % cover: ☐ 0-1%	1-5% 6-25%	Location	76-100%	iatitude	longitude			
Species:		Location		latitude	longitude			
% cover: □ 0-1%	1-5% 6-25%	26-50% 51-75%	76-100%		3			
19. Notes on the gene	ral aspect of the site/tec	hniques to meet restora						
Site is/has If planted	ille suppresseu	yes no appropriately managed not bedded but manage	secondary growth	e: 0-5 yrs 6-10 y				
	Specific n	otes on restoration, obs			es:			
Continue prescribed bu	rning as per the mitigation	n plan						

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Site Name:	Breakfast Point		Plant community	type: Mixed Foreste	ed Wetland				
Transect ID:	BPQT4_P2		Date and time (am	/pm):	11/1/2006	AM	✓ PM		
 Weather: Temperature: 	Full Sun 20-50 F	Part Sun 51-70 F	☐ Cloudy ✓ 71-90 F	✓ Cloudy and ☐ 91-110 F	l Rain/Fog				
3. CANOPY % cover:	Pine	Plantation (Rows)	✓ Managed for Pine		✓ Natural Fore	st			
	Abser	nt 0-1% 1-5%	6-25% 26-	50% 51-75%	76-100%				
4. Estimated height class	s of the majority of TR	EES using the following so	cale:	absent	3-5m	6-10m	√ >10m		
		List 3 dominant	TREE species observe	d in canopy:					
 Pinus elliot 	tii	2. Taxodiui	m ascendens	3.					
5. Estimated height class	s of the majority of SU	BCANOPY using the follo	wing scale:	absent	3-5m	∕ 6-10m	>10m		
List 3 dominant SUBCANOPY species observed:									
 Pinus elliot 	tii	2. Taxodiui	m ascendens	3.					
6. SHRUBS % cover:		Absent 0-1%	1-5% 4-2	5% 26-50%	51-75%	76-100%			
List 3 dominant SHRUB species observed:									
 Cyrilla race 	emiflora	2. Nyssa u	rsina	3. N	Myrica cerifera	a			
7. Estimated height clas	s of the majority of SH	RUBS using the following	scale:	absent	05m	.6-1.5m	1.6-3m		
		List 3 of the most commo	on SHRUB and/or TRE	E seedlings observe	d:				
1. Pinus elliot	tii	2.		3.	3.				
8. GROUNDCOVER $\%$	cover of graminoids (g	rasses, sedges and rushe	s):						
	Abser	nt 0-1% 1-5%	6-25% 26-	50% 51-75%	76-100%				
9. TOTAL GROUNDCO	VER % cover (including	g graminiods and forbes):							
	Abser	nt 0-1% 1-5%	6-25% 26-	50% 51-75%	76-100%				
		List 4 dominant	GROUNDCOVER spec	es observed:					
1	· Rubus sp.		2. Ludwi	gia sp.					
3	- Myrica cerifera		4. Smila:	laurifolia					
		List 3 of the most comr	mon GROUNDCOVER	seedlings observed:					
1.		2.		3.					
	List the WEEDY or RUDERAL species observed:								
roal-fact Daint Witigation 2000	Annual Manitarina Dana	2.		3.					

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10. Tree density: 11. Tree health:	appropriate trees healthy	inappropriate trees stressed	Why?: too den		sparse wet
12. Hydrologic indicat 13. Water table: 14. Water color: 15. Water column: 16. Altered hydrology	hydric soils rafted debris water stained at the surface tannic non-tanr sphagnum present soil subs	sediment deposition elevated lichen lines vegetation/ stain lines below surface cloudy utricularia present idence / oxidation of muck	algal mat/aufwuchs aquatic fauna morphological plant adap Standing water: If cloudy, why? exposed roots lichen lines: propriate vegetation:	y present abs	
1.		2.		3.	
4. 17. Wildlife usage and animal re	natural history observatio	5. ins: footprints		ods observed rep	d nests/calls
feral hog and deer track 18. Exotic species:					
To: Exemple openion	present absent If p	resent must be georefere	enced and include the fo	ollowing information:	
Species: % cover: 0-1%	1-5%6-25%	Location 26-50% 51-75%	: 76-100%	latitude	longitude
Species: % cover: 0-1%	1-5% 6-25%	Location	: 76-100%	latitude	longitude
		hniques to meet restora			
ls natural r Site is/has If planted	regeneration occuring? Fire suppressed I: bedded and planted endations for restoration	yes no appropriately managed not bedded but manage	and: species secondary growth ad for pine ~Tree ago mechanical treatment	planted cle cle 0-5 yrs 6-1 other:	oplemental planting/seeding needed ar-cut 0 yrs
Allow fire to burn into w	etland as per the mitigatio	·	ervations, or adaptive	management technic	чисэ.

Site Name:	Breakfast Point		Plant community type	: Hydric Pine Flatwood	s				
Transect ID:	BPQT4_P3		Date and time (am/pm)	11/1/200	6 AM PM				
1. Weather:	✓ Full Sun	Part Sun	Cloudy	Cloudy and Rain/Fog					
2. Temperature:	20-50 F	51-70 F	✓ 71-90 F	91-110 F					
3. CANOPY % cover	Pine Pla	ntation (Rows)	Managed for Pine	Natural I	Forest				
	Absent	0-1% 1-5%	6-25% 26-50%	51-75% 76-100 %	5				
4. Estimated height cl	ass of the majority of	TREES using the follow		absent 3-5m	6-10m >10m				
		List 3 dominant T	REE species observed i	n canopy:					
1. Pinus elliottii		2.		3.					
5. Estimated height cl	ass of the majority of	SUBCANOPY using the	e following scale:	absent 3-5m	6-10m >10m				
List 3 dominant SUBCANOPY species observed:									
1. Pinus elliottii		2.	_	3.					
6. SHRUBS % cover		Absent 0-1%	1-5% 6-25%	26-50% 51-75%	76-100%				
		List 3 domina	nt SHRUB species obse	erved:					
1. Magnolia vir	giniana	2. Myrica ceri	fera	3.					
7. Estimated height cl	ass of the majority of	SHRUBS using the follo	owing scale:	absent 05m	✓ .6-1.5m				
	List	3 of the most common	SHRUB and/or TREE s	eedlings observed:					
1.		2.		3.					
8. GROUNDCOVER $\%$	cover of graminoids (gras	sses, sedges and rushes)	:						
	Absent	0-1% 1-5%	6-25% 26-50%	51-75% 76-100%					
9. TOTAL GROUNDCO	VER % cover (including	graminiods and forbes):							
	Absent	0-1% 1-5%	6-25% 26-50%	51-75% 76-100%					
		List 4 dominant GF	ROUNDCOVER species	observed:					
1	· Lachnanthes caroliana		2. Arista stricta						
3	· Clethera alnifolia		4. Andropogon	virginicus					
	Lis	st 3 of the most commo	on GROUNDCOVER see	edlings observed:					
1.		2.		3.					
		List the WEEDY	or RUDERAL species of	bserved:					
1		2		3					

10. Tree density: 11. Tree health:	✓ appropriate	inappropriate trees stressed	Why?: too dens	= · · · · ·			
12. Hydrologic indic 13. Water table: 14. Water color: 15. Water column:	rafted debris water stained at the surface tannic non-tan sphagnum present	sediment deposition elevated lichen lines vegetation/ stain lines below surface nic/clear cloudy utricularia present	Standing water: If cloudy, why?	present absent suspended sediments	_		
16. Altered hydrolog		sidence / oxidation of muck	exposed roots	abnormal tree fall due typical abnorm			
	іпарргој	oriate vegetation List inar	ppropriate vegetation:		lai		
1.		2 .		3.			
4. 5. 6. 17. Wildlife usage and natural history observations:							
			ildlife useage observ	ed:			
hog rutting was observed,	mosquitos						
18. Exotic species:	present absent	Hogs sent must be georefer e	enced and include the f	following information:			
Species:		Location		latitude	longitude		
% cover: 0-1%	☐ 1-5% ☐ 6-25%	26-50% 51-75%	76-100%		, and the second		
Species:		Location	1:	latitude	longitude		
% cover: 0-1%	1-5% 6-25%	26-50% 51-75%	76-100%				
		e/techniques to meet	restoration goals:				
	ral regeneration occuring?	yes no			mental planting/seeding needed		
	fire suppressed	appropriately managed		planted clear-c			
If planted Recor	d: bedded and planted nmendations for restoration	not bedded but manag n: prescribed burn	ed for pine ~Tree ago	e :	rs11-20 yrs20+ yrs		
Specific notes on restoration, observations, or adaptive management techniques: Bedded and planted but 70% thinned, continue canopy reduction and prescribed burning as per the mitigation plan							

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Site Name:	Breakfast Point	Breakfast Point Plant community type: Hydric Pine Flatwoods							
Transect ID:	BPQT4_P4		Date and ti	me (am/pm):		11/1/2006	☐ AM	✓ PM	
 Weather: Temperature: 	Full Sun 20-50 F	Part Sun 51-70 F	☐ Cloudy ☐ 71-90 F		Cloudy and	d Rain/Fog			
3. CANOPY % cover:	✓ Pine Plar	ntation (Rows)	Managed	I for Pine		Natural Fo	rest		
	Absent	0-1% 1-5%	6-25%	26-50%	51-75%	76-100%			
4. Estimated height class	s of the majority of TREE	S using the following scale	e :		absent	3-5m	✓ 6-10m	>10m	
		List 3 dominant TR	REE species	observed in c	anopy:				
1. Pinus elliott	ii	2.			3.				
5. Estimated height class	s of the majority of SUBC	CANOPY using the following	ig scale:		√ absent	3-5m	6-10m	>10m	
	List 3 dominant SUBCANOPY species observed:								
1.		2.			3.				
6. SHRUBS % cover:		Absent 0-1%	1-5%	√ 6-25%	26-50%	51-75%	76-100%		
List 3 dominant SHRUB species observed:									
 Myrica cerif 	era	2. Ilex vomitor	ia		3.	llex glabra			
7. Estimated height class	7. Estimated height class of the majority of SHRUBS using the following scale:				absent	05m	.6-1.5m	✓ 1.6-3m	
	L	ist 3 of the most common \$	SHRUB and/	or TREE seed	dlings observe	ed:			
1.		2.			3.				
8. GROUNDCOVER %	cover of graminoids (gras	ses, sedges and rushes):							
	Absent	0-1% 1-5%	√ 6-25%	26-50%	<u> </u>	76-100%			
9. TOTAL GROUNDCO	VER % cover (including	graminiods and forbes):							
	Absent	0-1% 1-5%	6-25%	26-50%	√ 51-75%	76-100%			
		List 4 dominant GR	OUNDCOVE	ER species ob	served:				
1.	Juncu romarianus		2	Stillingia aqu	uatica				
3.	Pluchea foetida		4	- Sagittaria la	ncifolia				
		List 3 of the most commor	GROUNDO	COVER seedli	ings observed	l:			
1.		2.			3.				
		List the WEEDY of	or RUDERAL	species obse	erved:				
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10. Tree density: 11. Tree health:	appropriate trees healthy	inappropriate trees stressed	Why?: ✓ too den Why?: ✓ too den		too sparse too wet			
12. Hydrologic indicat 13. Water table: 14. Water color: 15. Water column: 16. Altered hydrology:	ors: hydric soils rafted debris water stained at the surface tannic non-tanr sphagnum present soil subs	sediment deposition elevated lichen lines vegetation/ stain lines below surface cloudy utricularia present idence / oxidation of muck	algal mat/aufwuchs	aquatic bryotphyt tussocks/hummoo tations/adventitious r present suspended sec	es aquatic plants cks secondary flow channels oots/buttressed trunks/hypertrophied lenticles absent			
1.		2.	opropriate regulation.	3.				
4. 5. 6. 17. Wildlife usage and natural history observations:								
18. Exotic species:	present absent							
	If p	resent must be georefere		•				
Species:		Location		latitude	longitude			
% cover: 0-1% Species: % cover: 0-1% 19. Notes on the gene	1-5% 6-25% 1-5% 6-25% ral aspect of the site/tec	☐ 26-50% ☐ 51-75% Location ☐ 26-50% ☐ 51-75% hniques to meet restora	76-100%	latitude	longitude			
	egeneration occuring?	yes no	and: species	appropriate	supplemental planting/seeding needed			
If planted	i: fire suppressed i: bedded and planted endations for restoration	appropriately managed not bedded but manage prescribed burn	secondary growth ad for pine ~Tree ag mechanical treatment	je: 0-5 yrs	clear-cut 6-10 yrs 11-20 yrs 20+ yrs			
	Specific n	otes on restoration, obs	ervations, or adaptive	management tech	niques:			
Continue canopy reduct	tion and prescribed fire as	per the mitigation plan						

Site Name:	Breakfast Point	st Point Plant community type: Cypress Flat								
Transect ID:	BPQT4_P5		Date and time	(am/pm):		12/21/2004	AM	✓ PM		
1. Weather:	✓ Full Sun	Part Sun	Cloudy		Cloudy ar	nd Rain/Fog				
2. Temperature:	20-50 F	51-70 F	✓ 71-90 F		✓ 91-110 F					
3. CANOPY % cover:	✓ Pine Pla	antation (Rows)	Managed for	Pine		Natural F	orest			
	Absent	0-1% 1-5%	6-25%	26-50%	✓ 51-75%	76-100%				
4. Estimated height class	s of the majority of TRE	ES using the following s	cale:		absent	3-5m	✓ 6-10m	>10m		
	List 3 dominant TREE species observed in canopy:									
 Pinus elliot 	tii	2. Taxodiu	m acendens		3.					
5. Estimated height class	s of the majority of SUB	CANOPY using the follo	wing scale:		absent	3-5m	✓ 6-10m	>10m		
List 3 dominant SUBCANOPY species observed:										
 Pinus elliot 	tii	2. Taxodiu	m acendens		3.					
6. SHRUBS % cover:		Absent 0-1%	1-5%	6-25%	26-50%	51-75%	76-100%			
		List 3 dom	inant SHRUB speci	ies observed	d:					
1. Myrica cerifera2. Nyssa ursina3.										
7. Estimated height clas	s of the majority of SHR	UBS using the following	scale:		absent	05m	.6-1.5m	1.6-3m		
	ı	ist 3 of the most comm	on SHRUB and/or	TREE seedl	lings observ	ved:				
1.		2.			3.					
8. GROUNDCOVER %	cover of graminoids (gra	sses, sedges and rushe	es):							
	Absent	0-1% 1-5%	6-25%	26-50%	51-75%	76-100%				
9. TOTAL GROUNDCO	VER % cover (including	graminiods and forbes)	:							
	Absent	0-1% 1-5%	6-25%	26-50%	51-75%	76-100%				
		List 4 dominant	GROUNDCOVER	species obs	served:					
1	 Sagitaria latifolia 		2. P	anicum verr	rucosum					
3	- Juncus romanianus		4.							
		List 3 of the most com	mon GROUNDCO \	/ER seedlin	igs observe	d:				
1. Toxicodend	dron radicans	2.			3.					
	List the WEEDY or RUDERAL species observed:									
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10. Tree density: 11. Tree health:	appropriate trees healthy	✓ inappropriate	Why?: too den		o sparse o wet			
12. Hydrologic indicat 13. Water table: 14. Water color: 15. Water column: 16. Altered hydrology	ors: yhydric soils rafted debris water stained at the surface tannic non-tanr sphagnum present soil subs	sediment deposition elevated lichen lines vegetation/ stain lines below surface cloudy utricularia present idence / oxidation of muck	algal mat/aufwuchs	aquatic bryotphytes tussocks/hummocks tations/adventitious roc present ab suspended sedin abnormal tree fa	aquatic plants secondary flow channels ots/buttressed trunks/hypertrophied lenticles usent			
1.		2.	propriate regulation.	3.				
4. 5. 6. 17. Wildlife usage and natural history observations: footprints scat herbivory observed animal remains scratch marks frog calls arthropods observed Notes on wildlife useage observed: reptiles observed mammals observed								
Sparrows and dragonfly	_							
18. Exotic species:	present / absent	resent must be georefere	enced and include the fo	ollowing information:				
Species: 0-1%	1-5% 6-25%	Location 51-75%		latitude	longitude			
Species: 0-1%	1-5% 6-25%	Location:		latitude	longitude			
		hniques to meet restorate						
Site is/has If planted	l: bedded and planted endations for restoration	yes	secondary growth d for pine ~Tree ag mechanical treatment	planted cle ge: 0-5 yrs 6- other:	applemental planting/seeding needed ear-cut 10 yrs			
Continue canopy reduc	-	ig as per the mitigation pla	-	management techn	iques.			

Site Name:	Breakfast Point		Plant community ty	pe: Freshwater	Marsh				
Transect ID:	BPQT4_P6		Date and time (am/p	m):	12/21/2004	4 AM	✓ PM		
1. Weather:	✓ Full Sun	Part Sun	Cloudy	Cloudy a	nd Rain/Fog				
2. Temperature:	20-50 F	✓ 51-70 F	☐ 71-90 F	91-110 F					
3. CANOPY % cover:	✓ Pi	ine Plantation (Rows)	Managed for Pine		Natural F	orest			
	Al	bsent 0-1% 1-5%	6-25% 26-50	%	76-100%	1			
4. Estimated height class	s of the majority of	TREES using the following so	cale:	absent	3-5m	✓ 6-10m	>10m		
		List 3 dominant	TREE species observed	in canopy:					
1. Pinus elliot	tii	2.		3					
5. Estimated height clas	s of the majority of	SUBCANOPY using the follo	wing scale:	absent	3-5m	✓ 6-10m	>10m		
		List 3 dominan	nt SUBCANOPY species	observed:					
1. Pinus elliot	tii	2.		3					
6. SHRUBS % cover:		Absent 0-1%	1-5% 4-259	6 26-50%	51-75%	76-100%			
	List 3 dominant SHRUB species observed:								
 Ilex vomitoria Photinia pyrifolia (=Aronia arbutifolia) Myrica cerifera 									
7. Estimated height class	s of the majority of	SHRUBS using the following	scale:	absent	05m	√ .6-1.5m	1.6-3m		
		List 3 of the most commo	on SHRUB and/or TREE	seedlings observ	ved:				
1. Myrica ceri	fera	2. Ilex vom	itoria	3					
8. GROUNDCOVER %	cover of graminoids	s (grasses, sedges and rushe	s):						
	Al	bsent 0-1% 1-5%	6-25% 26-50	% 51-75%	76-100%				
9. TOTAL GROUNDCO	VER % cover (inclu	uding graminiods and forbes):							
	Al	bsent 0-1% 1-5%	6-25% 26-50	% 51-75%	76-100%	ı			
		List 4 dominant	GROUNDCOVER specie	s observed:					
1	· Spartina patens		2. Andropo	gon virginicus					
3	- Juncus roemariar	านร	4. Panicun	scabriusculum	(=Dicantheli	um scabr.)			
		List 3 of the most comr	mon GROUNDCOVER se			,			
1. Andropogo	n virginicus	2. Panicum	scabriusculum (=Dicantl	neliu 3					
		List the WEED	Y or RUDERAL species	observed:					
roal-fact Daint Witigation 2000	Annual Manitaria - D	2.		3					

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10. Tree density: 11. Tree health:	appropriate trees healthy	inappropriate trees stressed	Why?: too der		oo sparse oo wet
12. Hydrologic indicat 13. Water table: 14. Water color: 15. Water column: 16. Altered hydrology	ors: hydric soils rafted debris water stained at the surface tannic non-tanr sphagnum present soil subs	sediment deposition elevated lichen lines vegetation/ stain lines below surface cloudy utricularia present idence / oxidation of muck	✓ algal mat/aufwuchs ✓ aquatic fauna	aquatic bryotphyte tussocks/hummoc tations/adventitious re present suspended sed abnormal tree typical	es aquatic plants ks secondary flow channels oots/buttressed trunks/hypertrophied lenticles absent
1.		2.	spropriate regulation.	3.	
animal rowshite-tailed Deer (Odor	coileus virginianus fer) sca	5. Ins: In footprints In frog calls	arthrop	oods observed	poird nests/calls
18. Exotic species:	present / absent	resent must be georefere	enced and include the fo	ollowing information	
Species: % cover: 0-1%		Location		latitude	longitude
Species:		Location		latitude	longitude
% cover: 0-1%	1-5%6-25% ral aspect of the site/tec	26-50% 51-75% hniques to meet restora	76-100% tion goals:		
ls natural r Site is/has If planted	regeneration occuring? i: fire suppressed i: bedded and planted endations for restoration	yes on no appropriately managed not bedded but manage	and: species secondary growth ad for pine ~Tree ag mechanical treatment	pe: 0-5 yrs 0 ther:	supplemental planting/seeding needed clear-cut 5-10 yrs 11-20 yrs 20+ yrs
Continue canopy reduc	-	ig as per the mitigation pla	-	management tech	inques.

Site Name:	Breakfast Point		Plant co	mmunity type	: Cypress Fla	at		
Transect ID:	BPQT4_P7		Date and	time (am/pm)	:	12/21/2004	1 AM	✓ PM
1. Weather:	✓ Full Sun	Part Sun	Cloudy	,	Cloudy a	nd Rain/Fog		
2. Temperature:	20-50 F	✓ 51-70 F	71-90	F	91-110 F	:		
3. CANOPY % cover:	✓ P	Pine Plantation (Rows)	Manag	ed for Pine		Natural F	orest	
	A	Absent 0-1% 1	5% 6-25%	26-50%	51-75%	76-100%		
4. Estimated height class	s of the majority of	f TREES using the following	g scale:		absent	3-5m	✓ 6-10m	>10m
		List 3 domir	ant TREE specie	s observed in	canopy:			
1. Pinus elliot	tii	2.			3			
5. Estimated height clas	s of the majority of	f SUBCANOPY using the f	ollowing scale:		absent	√ 3-5m	6-10m	>10m
		List 3 dom	nant SUBCANOI	Y species obs	served:			
1. Taxodium	ascendens	2. Pinu	s elliottii		3			
6. SHRUBS % cover:		Absent 0-	1% 1-5%	6-25%	26-50%	51-75%	76-100%	ı
		List 3 d	ominant SHRUB	species observ	/ed:			
1. Myrica ceri	1. Myrica cerifera2. Fraxinus caroliniana3. Ilex vomitoria							
7. Estimated height clas	s of the majority of	f SHRUBS using the follow	ing scale:		absent	05m	6-1.5m	✓ 1.6-3m
		List 3 of the most cor	nmon SHRUB an	d/or TREE see	edlings obser	ved:		
1. Myrica ceri	fera	2. Taxo	dium ascendens		3			
8. GROUNDCOVER %	cover of graminoid	ls (grasses, sedges and ru	shes):					
	A	Absent 0-1% 1	5% 6-25%	26-50%	51-75%	76-100%		
9. TOTAL GROUNDCO	VER % cover (incl	luding graminiods and forb	es):					
	A	Absent 0-1% 1-	5% 6-25%	26-50%	51-75%	76-100%		
		List 4 domina	ant GROUNDCO	VER species o	bserved:			
1	· Spartina patens			2. Rubus argu	utus			
3	- Cladium jamaicei	nse		4. Hypericum	fasciculatum			
		List 3 of the most c	ommon GROUNI	OCOVER seed	lings observe	ed:		
1.		2.			3			
	List the WEEDY or RUDERAL species observed:							
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10. Tree density: 11. Tree health:	✓ appropriate✓ trees healthy	inappropriate trees stressed	Why?: too den		oo sparse oo wet			
12. Hydrologic indicat	rafted debris	sediment deposition elevated lichen lines vegetation/ stain lines	✓ algal mat/aufwuchs ✓ aquatic fauna ✓ morphological plant adap	aquatic bryotphyte tussocks/hummoc	ks secondary flow			
13. Water table: 14. Water color: 15. Water column:	✓ at the surface ✓ tannic non-tanr ✓ sphagnum present	below surface	Standing water: If cloudy, why?	present a	absent	ocritophica lenticles		
16. Altered hydrology:	3011 3003	idence / oxidation of muck priate vegetation	exposed roots lichen lines: ppropriate vegetation:		fall due to soil subsidence abnormal			
1.		2.	ppropriate regulation.	3.				
4.				6.				
4. 5. 6. 17. Wildlife usage and natural history observations: footprints scat herbivory observed pireptiles observed reptiles observed mammals observed Notes on wildlife useage observed: Eastern towhee was heard; biting mosquitos and sand gnats								
18. Exotic species:	present absent	resent must be georefere	anced and include the fo	allowing information				
Species	Пρ	Location		latitude		ongitude		
Species: % cover: ☐ 0-1%	1-5% 6-25%	26-50%	76-100%	iatitude	ľ	ongitude		
Species:	1-5760-2576	Location		latitude	l	ongitude		
% cover: □ 0-1%	1-5% 6-25%	26-50% 51-75%	76-100%	idiliddo		ongituuo		
		hniques to meet restora	_					
_	egeneration occuring?	yes no	• -	appropriate s	supplemental planting/see	eding needed		
Site is/has If planted Recomme	iii c suppi csscu	appropriately managed or not bedded but manage		planted 0.5 yrs 0.5	clear-cut 5-10 yrs	_		
	Specific n	otes on restoration, obs			niques:			
Continue canopy reduct	tion and prescribed burning	g as per the mitigation pla	n					

Site Name:	Breakfast Point		Plant community ty	pe: Cypress Flat					
Transect ID:	BPQT5_P1		Date and time (am/p	m): 11/7/2	006 🗸 am	PM			
1. Weather:	Full Sun	✓ Part Sun	Cloudy	Cloudy and Rain/Fo	g				
2. Temperature:	20-50 F	✓ 51-70 F	71-90 F	91-110 F					
3. CANOPY % cover:	Pine	Plantation (Rows)	Managed for Pine	Natur	al Forest				
	Abse	ent 0-1% 4 1-5%	6-25% 26-50	% 51-75% 76-10	0%				
4. Estimated height class	s of the majority of TF	REES using the following so	cale:	absent 3-5m	✓ 6-10m	>10m			
	List 3 dominant TREE species observed in canopy:								
 Nyssa sylv 	atica	2. Taxodiur	m ascendens	3.					
5. Estimated height class	s of the majority of SI	UBCANOPY using the follo	wing scale:	absent 3-5m	✓ 6-10m	>10m			
List 3 dominant SUBCANOPY species observed:									
 Nyssa sylv 	atica	2. Taxodiur	m ascendens	3.					
6. SHRUBS % cover:		Absent 0-1%	1-5% 6-259	6 26-50% 51-75	% 76-100%				
		List 3 domin	nant SHRUB species obs	erved:					
1. Myrica ceri	1. Myrica cerifera 2. Ilex myrtifolia 3.								
7. Estimated height class	s of the majority of SI	HRUBS using the following	scale:	absent 05m	.6-1.5m	1.6-3m			
		List 3 of the most commo	on SHRUB and/or TREE	seedlings observed:					
1. Myrica ceri	fera	2.		3.					
8. GROUNDCOVER %	cover of graminoids (grasses, sedges and rushe	s):						
	Abse	ent 0-1% 1-5%	6-25% 26-50	% 51-75% 🗸 76-10	0%				
9. TOTAL GROUNDCO	VER % cover (includi	ing graminiods and forbes):							
	Abse	ent 0-1% 1-5%	6-25% 26-50	% 51-75% 76-10	0%				
		List 4 dominant	GROUNDCOVER specie	s observed:					
1	· Cladium jamaicense	e	2. Panicun	n virgatum					
3	Spartina sp.		4. Sagittar	a sp.					
		List 3 of the most comr	non GROUNDCOVER se	edlings observed:					
1.		2.		3.					
	List the WEEDY or RUDERAL species observed:								
roal-fact Daint Mitigation 2004	Annual Manitarina Dan	2.		3.					

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10. Tree density: 11. Tree health:	appropriate trees healthy	inappropriate trees stressed	Why?: too den	= = = = = = = = = = = = = = = = = = = =	o sparse o wet				
12. Hydrologic indicat 13. Water table: 14. Water color: 15. Water column: 16. Altered hydrology:	rafted debris rafted debris water stained at the surface tannic non-tanr sphagnum present soil subs	below surface nic/clear cloudy utricularia present idence / oxidation of muck	algal mat/aufwuchs aquatic fauna morphological plant adap Standing water: If cloudy, why? exposed roots lichen lines: opropriate vegetation:	present at suspended sedii	s secondary flow channels ots/buttressed trunks/hypertrophied lenticles osent				
1.		2.	, i i i i i i i i i i i i i i i i i i i	3.					
4.		5.		6.					
	17. Wildlife usage and natural history observations: animal remains scratch marks footprints scat herbivory observed arthropods observed reptiles observed mammals observed Notes on wildlife useage observed:								
Total Execute operation	present absent If p	resent must be georefer	enced and include the fo	ollowing information:					
Species:		Location		latitude	longitude				
% cover: 0-1%	1-5% 6-25%	26-50% 51-75%	76-100%						
Species:		Location		latitude	longitude				
% cover: 0-1%	1-5% 6-25%	26-50% 51-75% hniques to meet restora	76-100%						
ls natural r Site is/has If planted	regeneration occuring? Fire suppressed	yes no appropriately managed not bedded but manage	and: ✓ species secondary growth	planted cl	upplemental planting/seeding needed ear-cut 10 yrs				
		otes on restoration, obs			iques:				
Allow seedling pond cyr	oress to revegetate this ar	ea, Continue prescribed b	urning as per the mitigat	tion plan.					

Site Name:	Breakfast Point	Plant community type: Mesic Pine Flatwoods							
Transect ID:	BPQT5_P2		Date and time (am/pr	n): 11/7/2	006 🗸 am	PM			
1. Weather:	Full Sun	✓ Part Sun	Cloudy	✓ Cloudy and Rain/Fo	g				
2. Temperature:	20-50 F	✓ 51-70 F	71-90 F	91-110 F					
3. CANOPY % cover:	✓ Pine P	lantation (Rows)	Managed for Pine	Natur	al Forest				
	Absen	t 0-1% 1-5%	6-25% 26-509	6 51-75% 76-10	0%				
4. Estimated height class	s of the majority of TRE	EES using the following so	cale:	absent 3-5m	6-10m	✓ >10m			
		List 3 dominant	TREE species observed i	n canopy:					
1. Pinus elliot	tii	2.		3.					
5. Estimated height clas	s of the majority of SUE	BCANOPY using the follow	wing scale:	✓ absent 3-5m	6-10m	>10m			
	List 3 dominant SUBCANOPY species observed:								
1.		2.		3.					
6. SHRUBS % cover:		Absent 0-1%	1-5% 4-25%	26-50% 51-75	% 76-100%	6			
		List 3 domin	nant SHRUB species obse	erved:					
1. Ilex glabra		2.		3.					
7. Estimated height class	s of the majority of SHF	RUBS using the following	scale:	absent 05m	.6-1.5m	1.6-3m			
		List 3 of the most commo	on SHRUB and/or TREE s	eedlings observed:					
1.		2.		3.					
8. GROUNDCOVER %	cover of graminoids (gr	asses, sedges and rushe	s):						
	Absen	t 🗸 0-1% 🗌 1-5%	6-25% 26-509	6 51-75% 76-10	0%				
9. TOTAL GROUNDCO	VER % cover (including	g graminiods and forbes):							
	Absent	t 0-1% 1-5%	6-25% 26-509	6 51-75% 76-10	0%				
		List 4 dominant	GROUNDCOVER species	observed:					
1	· Serenoa repens		2. Pteridium	aqualinum					
3	lex glabra		4. Lyonia lu	cida					
	, i	List 3 of the most comm	mon GROUNDCOVER see						
1.		2.		3.					
	List the WEEDY or RUDERAL species observed:								
roal-fact Daint Witigation 2000	Annual Manitaring Danar	. 2.		3.					

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10. Tree density: 11. Tree health:	appropriate trees healthy	✓ inappropriate ✓ trees stressed	Why?: too den:		oo sparse oo wet			
12. Hydrologic indicat 13. Water table: 14. Water color: 15. Water column: 16. Altered hydrology:	ors: hydric soils rafted debris water stained at the surface tannic non-tanr sphagnum present soil subs	sediment deposition elevated lichen lines vegetation/ stain lines below surface cloudy utricularia present idence / oxidation of muck	algal mat/aufwuchs	aquatic bryotphyte tussocks/hummock tations/adventitious ro present / al suspended sedi	s aquatic plants s secondary flow channels ots/buttressed trunks/hypertrophied lenticles bsent			
1.		2.	opropriate regetation.	3.				
4.		5.		6.				
17. Wildlife usage and natural history observations: animal remains scratch marks footprints scat herbivory observed arthropods observed Notes on wildlife useage observed: deer bedding and scat observed, mosquitos fish observed mammals observed mammals observed mammals observed								
18. Exotic species:	present absent If p	resent must be georefere	enced and include the fo	llowing information:				
Species: % cover: 0-1%	1-5%6-25%	Location 26-50% 51-75%	: 76-100%	latitude	longitude			
Species:		Location	:	latitude	longitude			
% cover: 0-1%	1-5% 6-25%	26-50% 51-75% hniques to meet restorate	76-100%					
ls natural r Site is/has If planted	regeneration occuring? i:	yes no no appropriately managed not bedded but manage	and: species secondary growth	e: 0-5 yrs 6	upplemental planting/seeding needed lear-cut -10 yrs			
	-	otes on restoration, obs	ervations, or adaptive i	management techr	niques:			
Continue canopy reduct	tion and prescribed burnin	ig as per the mitigation pla	ın					

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Site Name:	Breakfast Point	Breakfast Point Plant community type: Mesic Pine Flatwoods							
Transect ID:	BPQT6_P1		Date and tim	ne (am/pm):		11/20/2004	✓ AM	PM	
 Weather: Temperature: 	Full Sun 20-50 F	Part Sun 51-70 F	✓ Cloudy ☐ 71-90 F		Cloudy and	d Rain/Fog			
3. CANOPY % cover:	✓ Pine Pla	ntation (Rows)	Managed f	or Pine		Natural Fo	rest		
	Absent	0-1% 1-5%	√ 6-25%	26-50%	<u></u> 51-75% [76-100%			
4. Estimated height class	s of the majority of TREE	S using the following scale	e :		absent	3-5m	6-10m	✓ >10m	
		List 3 dominant TR	REE species o	bserved in ca	anopy:				
 Pinus elliott 	ii	2.			3.				
5. Estimated height class	s of the majority of SUB (CANOPY using the following	ng scale:		✓ absent	3-5m	6-10m	>10m	
	List 3 dominant SUBCANOPY species observed:								
1.		2.			3.				
6. SHRUBS % cover:		Absent 0-1%	1-5%	√ 6-25%	26-50%	51-75%	76-100%		
List 3 dominant SHRUB species observed:									
1. Ilex vomitor	1. Ilex vomitoria2. Ilex glabra3. Magnolia virginiana								
7. Estimated height class	s of the majority of SHRU	JBS using the following sca	ale:		absent	05m	.6-1.5m	✓ 1.6-3m	
	L	ist 3 of the most common \$	SHRUB and/o	r TREE seed	dlings observe	ed:			
1.		2.			3.				
8. GROUNDCOVER %	cover of graminoids (gras	sses, sedges and rushes):							
	Absent	0-1% 1-5%	√ 6-25%	26-50%	√ 51-75%	76-100%			
9. TOTAL GROUNDCO	VER % cover (including	graminiods and forbes):							
	Absent	0-1% 1-5%	6-25%	26-50%	<u></u> 51-75%	76-100%			
		List 4 dominant GR	OUNDCOVER	R species ob	served:				
1.	· Ilex glabra		2.	Serenoa rep	ens				
3.	Andropogon virginicus		4.	Vaccinium m	nysinites				
		List 3 of the most commor	n GROUNDC	OVER seedlir	ngs observed:				
1.		2.			3.				
		List the WEEDY of	or RUDERAL	species obse	erved:				
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10. Tree density: 11. Tree health:	appropriate trees healthy	inappropriate trees stressed	Why?: doo den		o sparse o wet		
12. Hydrologic indicat 13. Water table: 14. Water color: 15. Water column: 16. Altered hydrology:	ors: hydric soils rafted debris water stained at the surface tannic non-tanr sphagnum present soil subs	sediment deposition elevated lichen lines vegetation/ stain lines below surface nic/clear cloudy utricularia present idence / oxidation of muck	algal mat/aufwuchs	aquatic bryotphytes tussocks/hummock tations/adventitious roc present at suspended sedir	aquatic plants s secondary flow channels ots/buttressed trunks/hypertrophied lenticles osent		
1.		2.	ppropriate regetation.	3.			
4. 5. 6. 17. Wildlife usage and natural history observations:							
crickets, mosquitos		Notes on v	vilume useage observe	u.			
18. Exotic species:	present absent	resent must be georefere	enced and include the fo	allowing information:			
Species:	ıı p	Location		latitude	longitude		
% cover: □ 0-1%	1-5% 6-25%	26-50% 51-75%	76-100%	iamado	iongitudo		
Species:		Location	:	latitude	longitude		
% cover: 0-1%	1-5%6-25%	26-50% 51-75%	76-100%		_		
		hniques to meet restora	tion goals:				
Site is/has If planted	regeneration occuring? Fire suppressed prescribed burn	secondary growth ed for pine ~Tree ago mechanical treatment	e: planted clean c	upplemental planting/seeding needed ear-cut 10 yrs 11-20 yrs 20+ yrs			
Continue concentration	•	otes on restoration, obs	•	management techn	iques:		
Continue canopy reduct	aon and prescribed burnin	ig as per the mitigation pla	ın.				

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Site Name:	Breakfast Point	Breakfast Point Plant community type: Mesic Pine Flatwoods						
Transect ID:	BPQT6_P2		Date and ti	me (am/pm):	1	1/2/2006	✓ AM	PM
1. Weather:	Full Sun	Part Sun	✓ Cloudy		Cloudy and Ra	ain/Fog		
2. Temperature:	20-50 F	✓ 51-70 F	71-90 F		91-110 F			
3. CANOPY % cover:	Pine Plai	ntation (Rows)	Managed	for Pine		Natural Fo	orest	
	✓ Absent	0-1% 1-5%	√ 6-25%	26-50%	51-75%	76-100%		
4. Estimated height class	s of the majority of TREE	S using the following scale	e:		✓ absent	3-5m	6-10m	✓ >10m
		List 3 dominant TF	REE species	observed in c	anopy:			
1.		2.			3.			
5. Estimated height class	s of the majority of SUBC	CANOPY using the following	ng scale:		✓ absent	3-5m	6-10m	>10m
List 3 dominant SUBCANOPY species observed:								
1.		2.			3.			
6. SHRUBS % cover:		Absent 0-1%	1-5%	√ 6-25%	26-50%	51-75%	76-100%	
List 3 dominant SHRUB species observed:								
1. Ilex vomitoria 2. 3.								
7. Estimated height class	s of the majority of SHRL	JBS using the following sca	ale:		absent	05m	.6-1.5m	✓ 1.6-3m
	L	ist 3 of the most common	SHRUB and/	or TREE seed	dlings observed:			
1.		2.			3.			
8. GROUNDCOVER %	cover of graminoids (gras	sses, sedges and rushes):						
	Absent	0-1% 1-5%	6-25%	26-50%	51-75%	76-100%		
9. TOTAL GROUNDCO	VER % cover (including	graminiods and forbes):		_				
	Absent	0-1% 1-5%	6-25%	26-50%	<u></u> 51-75%	76-100%		
		List 4 dominant GR	OUNDCOVE	R species ob	served:			
1.	Juncus romarianus		2.	· Sagittaria la	ncifolia			
3.	· Cladium jamaicense		4.	·				
	2.sa.a ja.naioonoo	List 3 of the most common	n GROUNDC	OVER seedli	ings observed:			
1.		2.			3.			
		List the WEEDY	or RUDERAL	species obs	erved:			
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10. Tree density: 11. Tree health:		inappropriate trees stressed	Why?: too den	= "	oo sparse oo wet		
12. Hydrologic indicat 13. Water table: 14. Water color: 15. Water column: 16. Altered hydrology	hydric soils rafted debris water stained at the surface tannic non-tanr sphagnum present soil subs	sediment deposition elevated lichen lines vegetation/ stain lines below surface cloudy utricularia present idence / oxidation of muck	algal mat/aufwuchs	aquatic bryotphyte tussocks/hummock tations/adventitious rod present al suspended sedii	s aquatic plants s secondary flow channels ots/buttressed trunks/hypertrophied lenticles osent		
1.		2.		3.			
4. 5. 6. 17. Wildlife usage and natural history observations:							
18. Exotic species:	present absent						
	lf p	resent must be georefere		•			
Species:		Location		latitude	longitude		
% cover: 0-1% Species: % cover: 0-1% 19. Notes on the gene	1-5% 6-25% 1-5% 6-25% ral aspect of the site/tec	☐ 26-50% ☐ 51-75% Location ☐ 26-50% ☐ 51-75% hniques to meet restora	76-100%	latitude	longitude		
	egeneration occuring?	yes no	. —	appropriate si	upplemental planting/seeding needed		
Site is/has If planted Recomme	iii c suppi csscu		secondary growth ed for pine ~Tree ag mechanical treatment	planted cl	lear-cut -10 yrs		
	Specific n	otes on restoration, obs			niques:		
Allow fire to burn across	s marsh as per the mitigat	ion plan.					

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Site Name:	Breakfast Point	st Point Plant community type: Cypress Flat						
Transect ID:	BPQT7_P1		Date and time (am/pn	n): 12/22/200	D4 🗸 AM 🔲 PM			
1. Weather: 2. Temperature:	Full Sun 20-50 F	Part Sun 51-70 F	✓ Cloudy✓ 71-90 F	Cloudy and Rain/Fog				
3. CANOPY % cover:	✓ Pine	Plantation (Rows)	Managed for Pine	Natural	Forest			
	Abse	nt 0-1% 1-5%	6-25% 26-50%	51-75% 76-100	%			
4. Estimated height class	s of the majority of TF	EES using the following so	cale:	absent 3-5m	☐ 6-10m			
List 3 dominant TREE species observed in canopy:								
 Pinus elliot 	tii	2.		3.				
5. Estimated height class	s of the majority of SU	IBCANOPY using the follo	wing scale:	absent 3-5m	✓ 6-10m			
List 3 dominant SUBCANOPY species observed:								
 Magnolia v 	irginiana	2. Taxodiur	m ascendens	3. Ilex cassii	ne			
6. SHRUBS % cover:		Absent 0-1%	1-5% 4-25%	26-50% 51-75%	76-100%			
		List 3 domin	nant SHRUB species obse	rved:				
1. Myrica cerifera2. Nyssa ursina3. Illx myrtifolia								
7. Estimated height class	s of the majority of SF	IRUBS using the following	scale:	absent 05m	☐ .6-1.5m ✓ 1.6-3m			
		List 3 of the most commo	on SHRUB and/or TREE se	eedlings observed:				
1.		2.		3.				
8. GROUNDCOVER $\%$	cover of graminoids (rasses, sedges and rushe	s):					
	Abse	nt 0-1% 1-5%	6-25% 26-50%	51-75% 76-1009	%			
9. TOTAL GROUNDCO	VER % cover (includi	ng graminiods and forbes):						
	Abse	nt 0-1% 1-5%	6-25% 26-50%	51-75% 76-100	%			
		List 4 dominant	GROUNDCOVER species	observed:				
1	 Juncus romarianus 		2. Pluchea s	рр				
3	- Andropogon virginic	us	4. Stillingia	aquatica				
		List 3 of the most comr	mon GROUNDCOVER see	dlings observed:				
1. Andropogo	n virginicus	2.		3.				
		List the WEED	Y or RUDERAL species o	oserved:				
roal-fact Daint Mitigation 2004	Annual Manitarina Dan	2.		3.				

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10. Tree density: 11. Tree health:	appropriate trees healthy	✓ inappropriate	Why?: ✓ too den Why?: too den		sparse wet			
12. Hydrologic indicat 13. Water table: 14. Water color: 15. Water column: 16. Altered hydrology	ors: y hydric soils rafted debris water stained at the surface tannic non-tanr sphagnum present soil subs	sediment deposition elevated lichen lines vegetation/ stain lines below surface cloudy utricularia present idence / oxidation of muck	algal mat/aufwuchs	□ aquatic bryotphytes □ tussocks/hummocks tations/adventitious roots □ present □ abse □ suspended sedime □ abnormal tree fall	aquatic plants secondary flow channels /buttressed trunks/hypertrophied lenticles			
1.		2.	ppropriate regulation.	3.				
4. 5. 6. 17. Wildlife usage and natural history observations: animal remains scratch marks frog calls rotes on wildlife useage observed Notes on wildlife useage observed: deer/gator paths, crickets and mosquitos								
18. Exotic species:	present absent							
	If p	resent must be georefere		•				
Species:		Location		latitude	longitude			
% cover: 0-1% Species: % cover: 0-1% 19. Notes on the gene	1-5% 6-25% 1-5% 6-25% ral aspect of the site/tec	26-50% 51-75% Location: 26-50% 51-75% hniques to meet restorate	76-100%	latitude	longitude			
	egeneration occuring?	yes no	and: species	appropriate supp	plemental planting/seeding needed			
If planted	i: / fire suppressed i: / bedded and planted endations for restoration	appropriately managed not bedded but manage prescribed burn	secondary growth d for pine ~Tree ag mechanical treatment	e: 0-5 yrs 6-10	r-cut yrs 11-20 yrs 20+ yrs			
	Specific r	otes on restoration, obs	ervations, or adaptive	management techniq	ues:			
Continue canopy reduc	tion and prescribed burnir	ig as per the mitigation pla	n.					

Site Name:	Breakfast Point		Plant community	type: Hydric Pin	e Flatwoods			
Transect ID:	PBQT7_P2		Date and time (ar	n/pm):	11/2/2006	6 🗸 am	PM	
1. Weather: 2. Temperature:	Full Sun 20-50 F	Part Sun 51-70 F	✓ Cloudy ☐ 71-90 F	Cloudy 91-110	and Rain/Fog F			
3. CANOPY % cover:	Pine Pl	antation (Rows)	Managed for Pin	<u> </u>	Natural F	orest		
	Absent	0-1% 1-5%	6-25% 26	-50% 51-75%	76-100%			
4. Estimated height class	s of the majority of TRE	ES using the following so	cale:	absent	3-5m	6-10m	✓ >10m	
List 3 dominant TREE species observed in canopy:								
 Pinus elliot 	tii	2.		:	3.			
5. Estimated height class	s of the majority of SUB	CANOPY using the follo	wing scale:	absent	3-5m	✓ 6-10m	>10m	
List 3 dominant SUBCANOPY species observed:								
1. Pinus elliot	. Pinus elliottii 2. Nyssa biflora			:	3. Illex cassin	е		
6. SHRUBS % cover:		Absent 0-1%	□ 1-5%	25% 26-50%	51-75%	76-100%		
		List 3 domin	nant SHRUB species	observed:				
1.		2.		:	3.			
7. Estimated height class	s of the majority of SHR	RUBS using the following	scale:	absent	05m	6-1.5m	1.6-3m	
		List 3 of the most commo	on SHRUB and/or TRE	E seedlings obse	rved:			
 Magnolia v 	irginiana	2. Myrica c	erifera	:	3.			
8. GROUNDCOVER %	cover of graminoids (gra	asses, sedges and rushe	s):					
	Absent	0-1% 1-5%	6-25% 26	-50% 51-75%	76-100%			
9. TOTAL GROUNDCO	VER % cover (including	g graminiods and forbes):						
	Absent			-50% 51-75%	76-100%			
		List 4 dominant	GROUNDCOVER spe	cies observed:				
1	 Rhychospora inundata 	a	2. Myric	a heterophylla				
3	Pluchea spp		4. Aristi	da stricta				
		List 3 of the most comr	non GROUNDCOVER	seedlings observ	ed:			
1.		2.		:	3.			
		List the WEED	Y or RUDERAL speci	es observed:				
rookfoot Point Mitigation 2006	Annual Manitarina Danari	2.		;	3.			

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10. Tree density: 11. Tree health:	appropriate trees healthy	✓ inappropriate	Why?: too den		sparse wet		
12. Hydrologic indicat 13. Water table: 14. Water color: 15. Water column: 16. Altered hydrology:	ors: yhydric soils rafted debris water stained at the surface tannic non-tanr sphagnum present soil subs	sediment deposition elevated lichen lines vegetation/ stain lines below surface cloudy utricularia present idence / oxidation of muck	algal mat/aufwuchs	aquatic bryotphytes tussocks/hummocks tations/adventitious root present abs suspended sedim abnormal tree fal	aquatic plants secondary flow channels s/buttressed trunks/hypertrophied lenticles ent		
1.		2.	propriate regulation.	3.			
4. 5. 6. 17. Wildlife usage and natural history observations:							
deer tracks and moquito	DS .	110100 011 11	mamo accago cacon re				
18. Exotic species:	present / absent						
	if p	resent must be georefere		•	1		
Species:	□4.50 <i>/</i> □ <i>/</i> 250 <i>/</i>	Location:		latitude	longitude		
% cover: 0-1% Species: % cover: 0-1% 19. Notes on the gene	1-5% 6-25% 1-5% 6-25% ral aspect of the site/tec	26-50% 51-75% Location 26-50% 51-75% hniques to meet restorate	76-100%	latitude	longitude		
ls natural r	egeneration occuring?	yes no	. —	appropriate sup	pplemental planting/seeding needed		
If planted	i: / fire suppressed i: / bedded and planted endations for restoration	appropriately managed not bedded but manage	secondary growth d for pine ~Tree ag mechanical treatment	planted clear	ar-cut 0 yrs		
	Specific r	otes on restoration, obs	ervations, or adaptive	management technic	ques:		
Continue canopy reduct	tion and prescribed burnir	ig as per the mitigation pla	n.				

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Site Name:	Breakfast Point		Plant community type: Mesic Pine Flatwoods				
Transect ID:	BPQT7_P3		Date and time (am/	om):	12/22/2004	- ✓ AM	PM
1. Weather: 2. Temperature:	Full Sun	Part Sun 51-70 F	✓ Cloudy 71-90 F	☐ Cloudy a	nd Rain/Fog		
3. CANOPY % cover:		ntation (Rows)	Managed for Pine		Natural F	orest	
	Absent	0-1% 1-5%	6-25% 26-5	0% 51-75%	76-100%		
4. Estimated height clas	s of the majority of TREE	S using the following scale		absent	3-5m	6-10m	√ >10m
			REE species observed				
1. Pinus elliot	tii	2.		3			
5. Estimated height clas	s of the majority of SUBC	CANOPY using the following	ng scale:	absent	3-5m	6-10m	✓ >10m
List 3 dominant SUBCANOPY species observed:							
1.		2.		3			
6. SHRUBS % cover:		Absent 0-1%	1-5% 6-25	% 26-50%	51-75%	76-100%	
		List 3 dominar	nt SHRUB species ob	served:			
1. llex glabra		2. Ilex vomitor	ria	3	. Lyonia lucio	la	
7. Estimated height clas	s of the majority of SHRU	JBS using the following sc	ale:	absent	05m	.6-1.5m	✓ 1.6-3m
	L	ist 3 of the most common	SHRUB and/or TREE	seedlings observ	ved:		
1.		2.		3	•		
8. GROUNDCOVER $\%$	cover of graminoids (gras	sses, sedges and rushes):					
	Absent	0-1% 1-5%	6-25% 26-5	0% 51-75%	76-100%		
9. TOTAL GROUNDCO	VER % cover (including	graminiods and forbes):					
	Absent	0-1% 1-5%	6-25% 26-5	0% 51-75%	76-100%		
		List 4 dominant GR	OUNDCOVER specie	es observed:			
1	- Andropogon virginicus		2. Sereno	a repens			
3	- Rhynchospora fascicula	aris	4. Panicui	m anceps			
		List 3 of the most common	n GROUNDCOVER s	eedlings observe	d:		
1. Rhynchosp	ora sp.	2. Ilex vomitor	ria	3	. Andropogoi	n virginicus	
		List the WEEDY	or RUDERAL species	observed:			
1. Andropogo eakfast Point Mitigation 2006	n virginicus S Annual Monitoring Report	2. Rhynchosp	ora sp.	3	•		

10. Tree density: appropriate 11. Tree health: trees healthy	✓ inappropriate Why?: ☐ trees stressed Why?:	too dense too sparse too wet					
12. Hydrologic indicators: hydric soils rafted debris water stained v 13. Water table: 14. Water color: 15. Water column: 16. Altered hydrology: hydric soils rafted debris water stained v at the surface tannic non-tann sphagnum present ignorphise soil subsi	sediment deposition algal mat/au elevated lichen lines aquatic faun wegetation/ stain lines below surface standii	ffwuchs aquatic bryotphytes a a tussocks/hummocks s plant adaptations/adventitious roots/buttres ng water: present absent dy, why? suspended sediments outs abnormal tree fall due to set typical abnormal	other:				
1.	2.	3.					
4. 5. 6. 17. Wildlife usage and natural history observations: footprints scat herbivory observed pireptiles observed reptiles observed mammals observed Notes on wildlife useage observed:							
Wintering warbler species, robins, catbird, tree sw 18. Exotic species: present absent	<i>r</i> allows						
	resent must be georeferenced and incl	ude the following information:					
Species: % cover: 0-1% 1-5% 6-25%	Location:	latitude	longitude				
Species: % cover: □ 0-1% □ 1-5% □ 6-25%	Location: 26-50% 51-75% 76-100%	latitude	longitude				
19. Notes on the general aspect of the site/tecl							
Is natural regeneration occuring? Site is/has: fire suppressed If planted: bedded and planted Recommendations for restorations	prescribed burn	growth planted clear-cut Tree age: 0-5 yrs 6-10 yrs 1 I treatment other:	al planting/seeding needed				
Specific no Continue canopy reduction and prescribed burning	otes on restoration, observations, or	adaptive management techniques:					

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Site Name:	Breakfast Point			Plant com	nmunity type	: Freshwater	Marsh		
Transect ID:	BPQT7_P4			Date and t	ime (am/pm)	:	12/22/2004	↓ ✓ AM	PM
 Weather: Temperature: 	Full Sun 20-50 F	Part Sun 51-70 F		Cloudy 71-90 F		✓ Cloudy a	_		
3. CANOPY % cover:	Pi	ne Plantation (Rows)		Manageo	d for Pine		Natural F	orest	
	✓ Ak	osent 0-1%	1-5%	6-25%	26-50%	51-75%	76-100%		
4. Estimated height class of the majority of TREES using the following scale:			✓ absent	3-5m	6-10m	>10m			
List 3 dominant TREE species observed in canopy:									
1.		2.				3			
5. Estimated height class	ss of the majority of	SUBCANOPY using	the followi	ng scale:		✓ absent	3-5m	6-10m	>10m
List 3 dominant SUBCANOPY species observed:									
1.		2.				3			
6. SHRUBS % cover:		✓ Absent	0-1%	1-5%	6-25%	26-50%	51-75%	76-100%	
		Lis	t 3 domina	nt SHRUB s _l	pecies observ	red:			
1.		2.				3			
7. Estimated height class	ss of the majority of	SHRUBS using the f	ollowing so	cale:		✓ absent	05m	.6-1.5m	1.6-3m
		List 3 of the mos	st common	SHRUB and	or TREE see	dlings observ	/ed:		
1.		2.				3.			
8. GROUNDCOVER %	cover of graminoids	s (grasses, sedges a	nd rushes):						
		osent 0-1%	1-5%	6-25%	26-50%	√ 51-75%	76-100%		
9. TOTAL GROUNDCO	VER % cover (inclu	uding graminiods and	forbes):						
	L Ak	osent 0-1%	1-5%	6-25%	26-50%	√ 51-75%	76-100%		
		List 4 do	ominant GF	ROUNDCOV	ER species of	bserved:			
1	 Cladium jamaicen 	ise		2	2. Spartina pa	itens			
3	Juncus roemarian	nus		4	1. Andropogo	n virginicus			
		List 3 of the m	ost commo	on GROUND	COVER seed	lings observe	d:		
1.		2.				3	•		
		List th	e WEEDY	or RUDERA	L species obs	served:			
1. Andropogo	n virginiçus	2.				3			

1. Andropogon virginicus
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10. Tree density: 11. Tree health:	appropriate trees healthy	inappropriate trees stressed	Why?: too den		
12. Hydrologic indicat	rafted debris	sediment deposition elevated lichen lines	algal mat/aufwuchs aquatic fauna	aquatic bryotphytes tussocks/hummocks	aquatic plants secondary flow channels outtressed trunks/hypertrophied lenticles
13. Water table: 14. Water color: 15. Water column:	✓ at the surface ✓ tannic □ non-tanr □ sphagnum present	below surface	Standing water: If cloudy, why?	✓ present absen	t
16. Altered hydrology	3011 30103	idence / oxidation of muck oriate vegetation	exposed roots lichen lines: ppropriate vegetation:	abnormal tree fall du typical abnor	ue to soil subsidence mal
1.		2.	ppropriate regetation.	3.	
4.		5.		6.	
	ia) present / absent	narks footprint Notes on v	arthrope arthrope arthrope wildlife useage observe	ry observed bird nods observed reptile	ests/calls fish observed mammals observed
	If p	resent must be georefer	enced and include the fo	ollowing information:	
Species: % cover: □ 0-1%	□ 1-5% □ 6-25%	Location 26-50% 51-75%	76-100%	latitude	longitude
Species:	1-5760-2576	Location		latitude	longitude
% cover: 0-1%	1-5% 6-25%	26-50% 51-75%	76-100%		
	ral aspect of the site/tec	hniques to meet restora	tion goals:		
Site is/has If planted	iii c suppi csscu	yes no appropriately managed not bedded but manage prescribed burn	secondary growth	planted clear- e: 0-5 yrs 6-10 y	
	-	otes on restoration, obs	servations, or adaptive	management techniqu	
Site is a marsh with no	canopy, allow fire to burn	across marsh when surro	unding uplands are burne	ed as per the mitigation	plan.

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Site Name:	Breakfast Point	Plant community type: Mesic Pine Flatwoods						
Transect ID:	BPQT8_P1		Date and time (am/pm): 11/6/200 ₄	4 ✓ AM PM			
1. Weather:	Full Sun	Part Sun	✓ Cloudy	Cloudy and Rain/Fog				
2. Temperature:	20-50 F	✓ 51-70 F	71-90 F	91-110 F				
3. CANOPY % cover	r: ✓ Pine Pl	antation (Rows)	Managed for Pine	Natural F	orest			
	Absent		6-25% 26-50%	51-75% 76-100%				
4. Estimated height of	lass of the majority of	TREES using the follow	-	absent 3-5m	6-10m			
		List 3 dominant T	REE species observed	in canopy:				
1. Pinus elliotti	i	2.		3.				
5. Estimated height of	lass of the majority of	SUBCANOPY using th	e following scale:	absent 3-5m	√ 6-10m >10m			
		List 3 dominant	SUBCANOPY species	observed:				
1. Pinus elliotti	i	2.		3.				
6. SHRUBS % cover	':	✓ Absent 0-1%	1-5% 6-25%	26-50% 51-75%	76-100%			
		List 3 domina	ant SHRUB species obs	erved:				
1. Ilex vomitori	а	2.		3.				
7. Estimated height of	<u> </u>	SHRUBS using the foll		absent 05m	.6-1.5m / 1.6-3m			
	List	3 of the most common	SHRUB and/or TREE:	seedlings observed:				
1.		2.		3.				
8. GROUNDCOVER %	cover of graminoids (gra	asses, sedges and rushes):					
	Absent		6-25% 26-50%	51-75% 76-100%				
9. TOTAL GROUNDCO	· · · · · ·	graminiods and forbes):						
	✓ Absent		6-25% 26-50%					
		List 4 dominant G	ROUNDCOVER species	s observed:				
	1. Rhus coppalina		2. Pteridium a	qualinum				
;	3. Ilex glabra		4. Vaccinium	myrsinites				
	Li	ist 3 of the most commo	on GROUNDCOVER se	edlings observed:				
1.		2.		3.				
		List the WEEDY	or RUDERAL species	observed:				
1.		2.		3.				

10. Tree density: appropriate inappropriate why?: too dense too sparse 11. Tree health: trees healthy trees stressed why?: too dense too wet								
12. Hydrologic indicators: hydric soils sediment deposition algal mat/aufwuchs aquatic bryotphytes aquatic plants aquatic fauna tussocks/hummocks secondary flow channels water stained vegetation/ stain lines morphological plant adaptations/adventitious roots/buttressed trunks/hypertrophied lenticles 13. Water table: at the surface standing water: present appears to absent								
below surface								
14. Water color: tannic non-tannic/clear cloudy If cloudy, why? suspended sediments other:								
15. Water column: sphagnum present utricularia present								
16. Altered hydrology: soil subsidence / oxidation of muck exposed roots abnormal tree fall due to soil subsidence inappropriate vegetation lichen lines: typical abnormal								
☐ inappropriate vegetation ☐ lichen lines: ☐ typical ☐ abnormal List inappropriate vegetation:								
1. 2. 3.								
4. 5. 6.								
17. Wildlife usage and natural history observations:	od							
Notes on wildlife useage observed:	3U							
frog calls heard, sand gnats, mosquitos								
18. Exotic species: present absent If present must be georeferenced and include the following information:								
Species: Location: latitude longitude								
% cover : □ 0-1% □ 1-5% □ 6-25% □ 26-50% □ 51-75% □ 76-100%								
Species: Location: latitude longitude								
% cover: □ 0-1% □ 1-5% □ 6-25% □ 26-50% □ 51-75% □ 76-100%								
19. Notes on the general aspect of the site/techniques to meet restoration goals:								
Is natural regeneration occuring? yes one and: species appropriate supplemental planting/seeding needed								
Site is/has: fire suppressed appropriately managed secondary growth planted clear-cut								
If planted:								
Recommendations for restoration: prescribed burn mechanical treatment other: Specific notes on restoration, observations, or adaptive management techniques:								

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Site Name:	Breakfast Point	Plant community type: Freshwater Marsh						
Transect ID:	BPQT8_P2		Date and time	(am/pm):	12/21/200	4 🗸 AM	PM	
1. Weather:	Full Sun	Part Sun	Cloudy		Cloudy and Rain/Fog			
2. Temperature:	20-50 F	51-70 F	✓ 71-90 F		91-110 F			
3. CANOPY % cover:	Pine Plar	ntation (Rows)	Managed for	Pine	Natural Natural	orest		
	✓ Absent	0-1% 1-5%	6-25%	26-50%	51-75% 76-100%			
4. Estimated height class	s of the majority of TREE	S using the following scale	e:		absent 3-5m	6-10m	>10m	
		List 3 dominant TF	REE species obs	served in car	nopy:			
1.		2.			3.			
5. Estimated height class	s of the majority of SUBC	CANOPY using the following	ng scale:	[✓ absent 3-5m	6-10m	>10m	
		List 3 dominant S	UBCANOPY spe	ecies obser	rved:			
1.		2.			3.			
6. SHRUBS % cover:		Absent 0-1%	1-5%	6-25%	26-50% 51-75%	76-100%		
	List 3 dominant SHRUB species observed:							
1.		2.			3.			
7. Estimated height class	s of the majority of SHRU	JBS using the following sca	ale:	[✓ absent 05m	.6-1.5m	1.6-3m	
	L	ist 3 of the most common	SHRUB and/or T	TREE seedli	ings observed:			
1.		2.			3.			
8. GROUNDCOVER %	cover of graminoids (gras	sses, sedges and rushes):						
	Absent	0-1% 1-5%	6-25%	26-50%	<u></u>	, D		
9. TOTAL GROUNDCO	VER % cover (including	graminiods and forbes):						
	Absent	0-1% 1-5%	6-25%	26-50%	<u></u>	, D		
		List 4 dominant GR	OUNDCOVER S	species obs	erved:			
1.	Juncus romarianus		2 . _{Sp}	partina pate	ens			
3.	· Eleocharis sp		4.	•				
		List 3 of the most commor	n GROUNDCOV	ER seedling	gs observed:			
1. Ludwigia pi	losa	2.			3.			
		List the WEEDY of	or RUDERAL sp	ecies obser	rved:			
1. Ludwigia pi reakfast Point Mitigation 2006	losa Annual Monitoring Report	2.			3.			

10. Tree density: 11. Tree health:	✓ appropriate✓ trees healthy	inappropriate	Why?: too der	=	too sparse too wet	
TIT TIOO HOURIN	trees nealtny	trees stressed	too der	nse	too wet	
12. Hydrologic indicat	rafted debris	sediment deposition elevated lichen lines	algal mat/aufwuchs aquatic fauna	aquatic bryotphy ussocks/hummo	cks secondary flo	w channels
13. Water table: 14. Water color: 15. Water column: 16. Altered hydrology:	✓ at the surface ✓ tannic non-tanr sphagnum present soil subs	below surface sic/clear cloudy utricularia present idence / oxidation of muck	✓ morphological plant adap Standing water If cloudy, why? □ exposed roots □ lichen lines:	present suspended see abnormal tree typical	absent	
		List ina	ppropriate vegetation:			
1.		2.		3.		
4.		5.		6.		
17. Wildlife usage and animal re	present / absent	narks frog call Notes on	s arthrop wildlife useage observe	oods observed ed:	bird nests/calls reptiles observed	fish observed mammals observed
	If p	resent must be georefer	renced and include the for	ollowing informatior	n:	
Species:		Location	ո։	latitude		longitude
% cover: 0-1%	1-5% 6-25%	26-50% 51-75%	76-100%			
Species:		Location	n:	latitude		longitude
% cover: 0-1%	1-5% 6-25%	26-50% 51-75%				
	ral aspect of the site/tec	hniques to meet restora	• . —			
Site is/has If planted	endations for restoration	prescribed burn	secondary growth ed for pine ~Tree ag mechanical treatmen	ge: 0-5 yrs cher:		eeding needed
Allow prescribed fire to	Specific n burn across marsh as per	otes on restoration, obs	servations, or adaptive	management tech	nniques:	
Allow prescribed life to	Juni acioss maismas per	uie muyauon pian.				

Site Name:	Breakfast Point	Plant community type: Freshwater Marsh						
Transect ID:	BPQT9_T1		Date and time (am/pn	1): 11/7	7/2006 🗹 AM	PM		
1. Weather:	Full Sun	Part Sun	✓ Cloudy	Cloudy and Rain	/Fog			
2. Temperature:	20-50 F	✓ 51-70 F	71-90 F	91-110 F				
3. CANOPY % cover	Pine Pla	antation (Rows)	Managed for Pine	☐ Na	atural Forest			
	Absent	0-1% 1-5%	6-25% 26-509	6 51-75% 76	-100%			
4. Estimated height of	lass of the majority of	TREES using the follow		absent 3-	5m 6-10m	>10m		
		List 3 dominant T	REE species observed	in canopy:				
1. Pinus elliotti		2.		3.				
5. Estimated height of	lass of the majority of	SUBCANOPY using the		absent 3-	5m 6-10m	>10m		
		List 3 dominant \$	SUBCANOPY species	observed:				
1. Ilex vomitori		2. Myrica ceri		3. Nyssa				
6. SHRUBS % cover	:	Absent 0-1%	1-5% 6-25%		-75% 76-100%	,		
		List 3 domina	ant SHRUB species ob	served:				
1. Ilex glabra		2.		3.				
7. Estimated height of	· ·	SHRUBS using the follo		absent 0-		1.6-3m		
	List	3 of the most common	SHRUB and/or TREE	seedlings observed	l:			
1.		2.		3.				
8. GROUNDCOVER %		sses, sedges and rushes)):					
	Absent		6-25% 26-509	6 51-75% 276	-100%			
9. TOTAL GROUNDCO		graminiods and forbes):						
	Absent	0-1% 1-5%	6-25% 26-509		-100%			
		List 4 dominant Gr	ROUNDCOVER specie					
,	1. Panicum vergatan		2. Sagittaria	ancifolia				
	3. Styllingia aqualica		4. Anthaenar					
	Li	st 3 of the most commo	on GROUNDCOVER so	eedlings observed:				
1.		2.		3.				
		List the WEEDY	or RUDERAL species	observed:				
1		2		2				

10. Tree density: appropriate 11. Tree health: trees healthy	inappropriate Why?:	too dense too sparse						
11. Tree health: trees healthy	✓ trees stressed Why?:	too dense						
12. Hydrologic indicators:								
13. Water table: at the surface		anding water: present absent	3,					
15. Water column: sphagnum present	nnic/clear cloudy If c		ther:					
	osidence / oxidation of muck exposed opriate vegetation lirhen lir		subsidence					
	List inappropriate	vegetation:						
1.	2.	3.						
4.	5.	6.						
	17. Wildlife usage and natural history observations:							
	Notes on wildlife usea	age observed:						
small birds, mosquitos								
18. Exotic species: ☐ present ✓ absent								
·	sent must be georeferenced and i	•						
Species: Feral pig (Sus scrofa)	Location:	latitude	longitude					
% cover: 0-1%1-5%6-25%	26-50% 51-75% 76-100%	6						
Species:	Location:	latitude	longitude					
% cover: 0-1% 1-5% 6-25%								
19. Notes on the general aspect of the si		<u> </u>						
Is natural regeneration occuring?	<u></u>	· · · · · · · · · · · · · · · ·	anting/seeding needed					
Site is/has: fire suppressed	appropriately managed secondar							
If planted: bedded and planted	not bedded but managed for pine	_ , _ , _	1-20 yrs 20+ yrs					
Recommendations for restoration		ical treatment other:						
Specific not	es on restoration, observations, e	or adaptive management techniques:						

after heavy rain, inundated

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Site Name:	Breakfast Point	eakfast Point Plant community type: Hydric Pine Flatwoods							
Transect ID:	BPQT9_P2		Date and time	(am/pm):	11/7/2004 🗸 AM 🔲 PM			PM	
1. Weather:	Full Sun	Part Sun	Cloudy		✓ Cloudy ar	nd Rain/Fog			
2. Temperature:	20-50 F	✓ 51-70 F	71-90 F		91-110 F				
3. CANOPY % cover:	✓ Pine PI	antation (Rows)	Managed for	Pine		Natural F	orest		
	Absent	0-1% 1-5%	6-25%	26-50%	51-75%	76-100%			
4. Estimated height clas	s of the majority of TRE	ES using the following so	cale:		absent	3-5m	✓ 6-10m	>10m	
		List 3 dominant	TREE species obs	erved in can	пору:				
1. Pinus elliot	tii	2.			3.				
5. Estimated height clas	s of the majority of SUB	CANOPY using the follo	wing scale:		absent	✓ 3-5m	6-10m	>10m	
	List 3 dominant SUBCANOPY species observed:								
1. Pinus elliot	tii	2. Ilex cass	ine		3.	Myrica cerif	era		
6. SHRUBS % cover:		Absent 0-1%	1-5%	6-25%	26-50%	51-75%	76-100%		
	List 3 dominant SHRUB species observed:								
1. Ilex glabra 2. Nyssa ursina 3. Myrica cerifera									
7. Estimated height clas	s of the majority of SHR	UBS using the following	scale:		absent	05m	✓ .6-1.5m	1.6-3m	
		List 3 of the most commo	on SHRUB and/or T	REE seedlir	ngs observ	red:			
1.		2.			3.				
8. GROUNDCOVER %	cover of graminoids (gra	asses, sedges and rushe	s):						
	Absent	0-1% 1-5%	6-25%	26-50%	√ 51-75%	76-100%			
9. TOTAL GROUNDCO	VER % cover (including	graminiods and forbes):							
	Absent	0-1% 1-5%	6-25%	26-50%	<u> </u>	76-100%			
		List 4 dominant	GROUNDCOVER S	species obse	erved:				
1	· Andropogon glomerate	us	2. Pto	eridium aqua	alinum				
3	Aristida stricta		4. lle	x glabra					
		List 3 of the most comm			gs observed	d:			
1.		2.			3.				
		List the WEED	Y or RUDERAL spe	ecies observ	ved:				
rookfoot Boint Mitigation 2006	Annual Manitarina Danast	2.			3.				

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10. Tree density: 11. Tree health:	appropriate trees healthy	✓ inappropriate ✓ trees stressed	Why?: too der		too sparse too wet	
12. Hydrologic indicat 13. Water table: 14. Water color: 15. Water column: 16. Altered hydrology	ors: yhydric soils rafted debris water stained at the surface tannic non-tanr sphagnum present soil subs	sediment deposition elevated lichen lines vegetation/ stain lines below surface cloudy utricularia present idence / oxidation of muck	algal mat/aufwuchs aquatic fauna morphological plant adap Standing water: If cloudy, why? exposed roots lichen lines:	aquatic bryotph tussocks/humm otations/adventitious present suspended s abnormal tre typical	nytes aquatic plant nocks secondary flo s roots/buttressed trunks/f	ow channels nypertrophied lenticles
1.		2.	pp. op. iaio regetamem	3.		
4.		5.		6.		
17. Wildlife usage and animal reperigrine falcon and mo		narks footprints		oods observed	bird nests/calls reptiles observed	fish observed mammals observed
18. Exotic species:	present absent	recent much be meanfaire	anand and include the fo	allowing informati	an.	
Onesia	пр	resent must be georefere		•	on:	la marife da
Species: % cover: □ 0-1%	1-5% 6-25%	Location 26-50% 51-75%	: 76-100%	latitude		longitude
Species:		Location	:	latitude		longitude
% cover:	1-5%6-25%	26-50% 51-75%	76-100%			
	rai aspect of the site/tec regeneration occuring?	hniques to meet restorate	. —			
Site is/has If planted	fire suppressed	yes no appropriately managed not bedded but manage	secondary growth		supplemental planting/s clear-cut 11-20 yrs	eeding needed
	Specific n	otes on restoration, obs			chniques:	
Continue canopy reduc	tion and prescribed burning	g as per the mitigation pla	n.			

Site Name:	Breakfast Point		Plant community	type: Hydric Pin	ast Point Plant community type: Hydric Pine Flatwoods						
Transect ID:	BPQT10_P1	Date and time (am/pm):			10/30/200	6 🗸 am	PM				
 Weather: Temperature: 	Full Sun	Part Sun 51-70 F	Cloudy 71-90 F	Cloudy 91-110	and Rain/Fog F						
3. CANOPY % cover:	Pine P	antation (Rows)	Managed for Pine	•	Natural F	orest					
	Absen	0-1% 1-5%	6-25% 26	-50% 51-75%	76-100%						
4. Estimated height class	s of the majority of TRE	ES using the following so	cale:	absent	3-5m	✓ 6-10m	>10m				
		List 3 dominant	TREE species observ	ed in canopy:							
 Pinus elliot 	tii	2.		;	3.						
5. Estimated height class	s of the majority of SUE	BCANOPY using the follow	wing scale:	absent	✓ 3-5m	6-10m	>10m				
		List 3 dominan	t SUBCANOPY specie	es observed:							
 Pinus elliot 	tii	2.		;	3.						
6. SHRUBS % cover:		Absent 0-1%	✓ 1-5% 6-	25% 26-50%	<u></u> 51-75%	76-100%	1				
		List 3 domir	nant SHRUB species of	bserved:							
1. Nyssa ursina2. Clethra alnifolia3. Myrica cerifera											
7. Estimated height class	s of the majority of SHF	RUBS using the following	scale:	absent	05m	√ .6-1.5m	1.6-3m				
		List 3 of the most commo	on SHRUB and/or TRE	E seedlings obse	rved:						
1.		2.		;	3.						
8. GROUNDCOVER $\%$	cover of graminoids (gr	asses, sedges and rushes	s):								
	Absen	0-1% 1-5%	6-25% 26	-50% 🗹 51-75%	76-100%						
9. TOTAL GROUNDCO	VER % cover (including	g graminiods and forbes):									
	Absen			-50% 51-75%	76-100%	·					
		List 4 dominant	GROUNDCOVER spe	cies observed:							
1	 Pluchea spp 		2. Stillin	gia aquatica							
3	- Sagitaria lancifolia		4. Andro	pogon glomeratu	S						
		List 3 of the most comm	non GROUNDCOVER	seedlings observ	ed:						
1.		2.		;	3.						
		List the WEED	Y or RUDERAL specie	es observed:							
roal foot Doint Mitigation 2000	Annual Manitarina Danar	. 2.			3.						

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12. Hydrologic indicators:	10. Tree density: 11. Tree health:	✓ appropriate✓ trees healthy	inappropriate trees stressed	Why?: too den	=		
13. Water table:	12. Hydrologic indicat	rafted debris	elevated lichen lines	aquatic fauna	✓ tussocks/hummocks	secondary flow channels	
List inappropriate vegetation: 1.	14. Water color: 15. Water column:	✓ at the surface ✓ tannic	below surface nic/clear cloudy utricularia present idence / oxidation of muck	Standing water: If cloudy, why? exposed roots	✓ present ☐ absent ☐ suspended sediments ☐ abnormal tree fall due	other:	
4. 5. 6. 17. Wildlife usage and natural history observations:		inapprop	List ina			idi	
17. Wildlife usage and natural history observations:	1.		2.		3.		
animal remains scratch marks frog calls arthropods observed reptiles observed ✓ mammals observed Notes on wildlife useage observed: Deer/Bobcat tracks, red-shouldered Hawk observed	4.		5.		6.		
If present must be georeferenced and include the following information: Species: Sapium sebiferum Location: SAP-BPQT10-1 Iatitude Iongitude % cover: 0-1% 1-5% 6-25% 26-50% 51-75% 76-100% Species: Location: Iatitude Iongitude % cover: 0-1% 1-5% 6-25% 26-50% 51-75% 76-100% 19. Notes on the general aspect of the site/techniques to meet restoration goals: Is natural regeneration occuring? yes no and: species appropriate supplemental planting/seeding needed Site is/has: fire suppressed appropriately managed secondary growth planted clear-cut If planted: bedded and planted not bedded but managed for pine Tree age: 0-5 yrs 6-10 yrs 11-20 yrs 20+ yrs Recommendations for restoration: prescribed burn mechanical treatment other:	animal remains scratch marks frog calls arthropods observed reptiles observed mammals observed Notes on wildlife useage observed:						
Species: Sapium sebiferum Cover: □ 0-1% □ 1-5% □ 6-25% □ 26-50% □ 51-75% □ 76-100% Species: Location: SAP-BPQT10-1 latitude longitude Species: Location: latitude longitude Cover: □ 0-1% □ 1-5% □ 6-25% □ 26-50% □ 51-75% □ 76-100% 19. Notes on the general aspect of the site/techniques to meet restoration goals: Is natural regeneration occuring? □ yes □ no and: □ species appropriate □ supplemental planting/seeding needed Site is/has: □ fire suppressed □ appropriately managed □ secondary growth □ planted □ clear-cut □ flanted: □ bedded and planted □ not bedded but managed for pine ~Tree age: □ 0-5 yrs □ 6-10 yrs □ 11-20 yrs □ 20+ yrs □ 6-10 yrs □ 11-20 yrs □ 20+ yrs □ 6-10 yrs □ 11-20 yrs □ 20+ yrs □ 6-10 yrs □ 11-20 yrs □ 20+ yrs □ 6-10 yrs □ 11-20 yrs □ 20+ yrs □ 6-10 yrs □ 11-20 yrs □ 20+ yrs □ 6-10 yrs □ 11-20 yrs □ 20+ yrs □ 20+	18. Exotic species:	present absent	resent must be georafor	renced and include the fo	Nowing information:		
% cover:	Species: Sanium se				•	longitude	
Species: Location: latitude longitude % cover: 0-1% 1-5% 6-25% 26-50% 51-75% 76-100% 19. Notes on the general aspect of the site/techniques to meet restoration goals: Is natural regeneration occuring?	·				idilidde	iongitude	
19. Notes on the general aspect of the site/techniques to meet restoration goals: Is natural regeneration occuring?			Location	n:	latitude	longitude	
Is natural regeneration occuring? yes no and: species appropriate supplemental planting/seeding needed Site is/has: fire suppressed appropriately managed secondary growth planted If planted: bedded and planted not bedded but managed for pine the commendations for restoration: prescribed burn mechanical treatment tother:	% cover: 0-1%	1-5% 6-25%	26-50% 51-75%	76-100%			
Site is/has: appropriately managed secondary growth planted clear-cut If planted: bedded and planted not bedded but managed for pine			hniques to meet restora	tion goals:			
Specific notes on restoration, observations, or adaptive management techniques:	Site is/has If planted	i: fire suppressed i: bedded and planted endations for restoration	appropriately managed not bedded but manag	secondary growth ed for pine ~Tree ag mechanical treatment	planted clear-cu e: 0-5 yrs 6-10 yr other:	ut s	
Continue prescribed burning as per the mitigation plan.	Continue prescribed by	-	•	servations, or adaptive	management technique	s:	

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Site Name:	Breakfast Point			Plant com	munity type:	: Hydric Pine	Flatwoods		
Transect ID:	BPQT10_P2			Date and ti	me (am/pm):	:	10/31/2004	- ✓ AM	PM
1. Weather: 2. Temperature:	Full Sun	Part Sun	ı	☐ Cloudy ✓ 71-90 F		Cloudy a	nd Rain/Fog		
3. CANOPY % cover:		ntation (Rows)	1-5%	Managed	for Pine	51-75%	Natural Fo	orest	
4. Estimated height class	s of the majority of TREE				26-50%	absent	3-5m	√ 6-10m	>10m
			3 dominant TF		observed in o			0-10III	
1. Pinus elliott	tii	2	<u>.</u>			3			
5. Estimated height class	s of the majority of SUBC	ANOPY usin	ng the followin	ng scale:		✓ absent	3-5m	6-10m	>10m
		List	3 dominant S	UBCANOPY	species obs	erved:			
1. 6. SHRUBS % cover:		Absent	2. 0-1%	√ 1-5%	6-25%	3 .	51-75%	76-100%	
	List 3 dominant SHRUB species observed:								
1. Ilex vomitor	ria	2	. Myrica cerif	fera		3	. Nyssa ursin	а	
7. Estimated height class	7. Estimated height class of the majority of SHRUBS using the following scale:					√ 1.6-3m			
	L	ist 3 of the m	ost common s	SHRUB and	or TREE see	dlings observ	ved:		
1.		2	2.			3			
8. GROUNDCOVER %	cover of graminoids (gras	ses, sedges	and rushes):						
9. TOTAL GROUNDCO	Absent VER % cover (including g	0-1% graminiods ar	1-5% nd forbes):	6-25%	26-50%	51-75%	76-100%		
	Absent	0-1%	1-5%	6-25%	26-50%	51-75%	76-100%		
		List 4	dominant GR	OUNDCOVE	ER species of	oserved:			
1.	· Cliftonia monophylla			2	- Sagittaria la	ancifolia			
3.	- Juncus romarianis			4	· Pluchea sp	р			
		List 3 of the	most commoi	n GROUND (COVER seedl	ings observe	d:		
1. Callicarpa a	americana	2	2.			3	•		
		List	the WEEDY of	or RUDERAL	_ species obs	erved:			
1. Myrica cerif Breakfast Point Mitigation 2006 ERC# 04-310	era Annual Monitoring Report	2	!.			3			59 (

10. Tree density: 11. Tree health:	appropriate trees healthy	✓ inappropriate ✓ trees stressed	Why?: too den		too sparse too wet			
12. Hydrologic indicat 13. Water table: 14. Water color: 15. Water column: 16. Altered hydrology	ors: hydric soils rafted debris water stained at the surface tannic non-tanr sphagnum present soil subs	sediment deposition elevated lichen lines vegetation/ stain lines below surface cloudy utricularia present idence / oxidation of muck	algal mat/aufwuchs aquatic fauna morphological plant adap Standing water: If cloudy, why? exposed roots lichen lines: propriate vegetation:	aquatic bryotphy tussocks/hummo tations/adventitious present suspended se	rtes aquatic plant ocks secondary flo roots/buttressed trunks/l absent	ow channels hypertrophied lenticles		
1.		2.	ppropriate regulation.	3.				
4. 5. 6. 17. Wildlife usage and natural history observations: footprints scat herbivory observed animal remains scratch marks frog calls arthropods observed Notes on wildlife useage observed: deer, crawfish burrows, monarch butterfly, mosquitos, small minnows								
18. Exotic species:	present / absent							
	If p	resent must be georefere		ollowing informatio	n:			
Species:		Location	:	latitude		longitude		
% cover: 0-1% Species: % cover: 0-1% 19. Notes on the gene	1-5% 6-25% 1-5% 6-25% ral aspect of the site/tec	26-50% 51-75% Location 26-50% 51-75% hniques to meet restorate	76-100%	latitude		longitude		
	egeneration occuring?	yes ono	and: species	appropriate	supplemental planting/s	seeding needed		
If planted	i: fire suppressed i: bedded and planted endations for restoration	appropriately managed not bedded but manage	secondary growth ad for pine ~Tree ag mechanical treatment		clear-cut 6-10 yrs	s 20+ yrs		
	Specific n	otes on restoration, obs	ervations, or adaptive	management tec	hniques:			
Continue canopy reduc	tion and prescribed burnin	ig as per the mitigation pla	n.					

Site Name:	Breakfast Point	reakfast Point Plant community type: Mesic Pine Flatwoods							
Transect ID:	BPQT10_P3			Date and t	ime (am/pm)	• •	10/31/2004	1 ✓ AM	PM
1. Weather:	Full Sun	Part Sur	ı	Cloudy			nd Rain/Fog		
2. Temperature:	20-50 F	51-70 F		✓ 71-90 F		91-110 F			
3. CANOPY % cover:		Pine Plantation (Rows)		Managed	d for Pine		Natural F	orest	
		Absent 0-1%	1-5%	√ 6-25%	26-50%	<u> </u>	76-100%		
4. Estimated height class	s of the majority o	of TREES using the f	ollowing scal	le:		absent	3-5m	✓ 6-10m	>10m
		List 3	3 dominant T	REE species	observed in	canopy:			
 Pinus elliot 	tii	2	2.			3	-		
5. Estimated height clas	5. Estimated height class of the majority of SUBCANOPY using the following scale:			ng scale:		absent	✓ 3-5m	6-10m	>10m
		List	3 dominant \$	SUBCANOP	Y species obs	erved:			
1. Pinus elliot	tii	2	2.			3			
6. SHRUBS % cover:		Absent	√ 0-1%	1-5%	6-25%	26-50%	√ 51-75%	76-100%	
		L	ist 3 domina	int SHRUB s _l	pecies observ	ed:			
1.		2	2.			3			
7. Estimated height clas	s of the majority o	of SHRUBS using the	e following so	cale:		absent	√ 05m	.6-1.5m	1.6-3m
		List 3 of the m	ost common	SHRUB and	or TREE see	dlings obser	ved:		
1. Cliftonia m	onophylla	2	2.			3.			
8. GROUNDCOVER %	cover of graminoi	ids (grasses, sedges	and rushes):	:					
		Absent 0-1%	1-5%	6-25%	26-50%	<u>51-75%</u>	76-100%		
9. TOTAL GROUNDCO	VER % cover (inc	cluding graminiods a	nd forbes):						
		Absent 0-1%	1-5%	√ 6-25%	26-50%	<u> </u>	76-100%		
		List 4	dominant GI	ROUNDCOV	ER species of	bserved:			
1	1. Ilex glabra 2. Serenoa re				pens				
3	3. Quercus minima 4. Cliftonia mo			onophylla					
		List 3 of the	most commo	on GROUND	COVER seed	lings observe	d:		
1.		2	<u>2</u> .			3	•		
		List	the WEEDY	or RUDERA	L species obs	served:			
roakfoot Boint Mitigation 2006	2 Annual Manitarina	Donort	2.			3			

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10. Tree density: 11. Tree health:	appropriate trees healthy	✓ inappropriate ✓ trees stressed	Why?: too de	= 1	oo sparse oo wet
12. Hydrologic indicators	rafted debris	sediment deposition elevated lichen lines	algal mat/aufwuchs aquatic fauna morphological plant ada	aquatic bryotphyte tussocks/hummock	
13. Water table: 14. Water color: 15. Water column:	at the surface non-tannic sphagnum present	below surface	Standing water If cloudy, why	present 🗸 a	bsent
16. Altered hydrology:	=	lence / oxidation of muck ate vegetation	exposed roots lichen lines:	typical a	all due to soil subsidence bnormal
		List ina	ppropriate vegetation:		
1.		2.		3.	
4.		5.		6.	
17. Wildlife usage and nat	ural history observation:	s: footprint	s scat herbive	ory observed b	ird nests/calls fish observed
animal rema	ins scratch ma		s arthro wildlife useage observ		eptiles observed mammals observed
mosquitos			-		
18. Exotic species:	present / absent				
		esent must be georefer	renced and include the f	following information:	
Species:		Location	ո։	latitude	longitude
% cover: 0-1%	1-5% 6-25%	26-50% 51-75%	76-100%		
Species:		Location	ո։	latitude	longitude
% cover: 0-1%	1-5% 6-25%	26-50% 51-75%	76-100%		
19. Notes on the general a	aspect of the site/tech	niques to meet restora	ation goals:		
	eneration occuring?	yes no	and: specie	s appropriate s	upplemental planting/seeding needed
Site is/has:	fire suppressed	appropriately managed		✓ planted	lear-cut
	bedded and planted	not bedded but manag			-10 yrs 🗸 11-20 yrs 🗌 20+ yrs
r.coommenae		prescribed burn obs	✓ mechanical treatmenservations, or adaptive	1	niques:
Continue canopy reduction	•	·	•		

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Site Name:	Breakfast Point	cfast Point Plant community type: Cypress Flat						
Transect ID:	BPQT10_P4		Date and time (am	pm):	10/31/2006	S AM	✓ PM	
1. Weather:	Full Sun	✓ Part Sun	Cloudy	Cloudy a	and Rain/Fog			
2. Temperature:	20-50 F	51-70 F	✓ 71-90 F	91-110 [=			
3. CANOPY % cover:	✓ Pine Pla	ntation (Rows)	Managed for Pine		Natural F	orest		
	Absent	0-1% 1-5%	6-25% 26-	50% 51-75%	76-100%			
4. Estimated height class	s of the majority of TREE	S using the following se	cale:	absent	3-5m	✓ 6-10m	>10m	
		List 3 dominant	t TREE species observe	d in canopy:				
1. Taxodium	ascendens	2. Pinus el	liottii	3	3.			
5. Estimated height class	s of the majority of SUB (CANOPY using the follo	wing scale:	absent	3-5m	✓ 6-10m	>10m	
List 3 dominant SUBCANOPY species observed:								
1. Taxodium	ascendens	2. Pinus el	liottii	3	3.			
6. SHRUBS % cover:		Absent 0-1%	1-5% 4-2	5% 26-50%	51-75%	76-100%		
		List 3 domi	nant SHRUB species of	served:				
1. Serenoa re	pens	3	. Myrica cerif	era				
7. Estimated height class	s of the majority of SHR	JBS using the following	scale:	absent	05m	✓ .6-1.5m	1.6-3m	
	L	ist 3 of the most commo	on SHRUB and/or TREE	seedlings obser	ved:			
1.		2.		3	3.			
8. GROUNDCOVER %	cover of graminoids (gras	sses, sedges and rushe	es):					
	Absent	0-1% 1-5%	6-25% 26-	50%	76-100%			
9. TOTAL GROUNDCO	VER % cover (including	graminiods and forbes):	:					
	Absent	0-1% 1-5%	6-25% 26-	50% 51-75%	76-100%			
		List 4 dominant	GROUNDCOVER speci	es observed:				
1	· Cladium jamaicense		2. Stilling	ia aquatica				
3	- Vaccinium myrsinites		4. Taxico	dendron radicans	3			
		List 3 of the most com	mon GROUNDCOVER	eedlings observe	ed:			
1.		2.		3	.			
		List the WEED	Y or RUDERAL species	observed:				
realifest Baint Mitigation 200		2.		3				

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10. Tree density: 11. Tree health:	✓ appropriate✓ trees healthy	inappropriate trees stressed	Why?: too der Why?: too der	=	o sparse o wet
12. Hydrologic indicat	rafted debris	sediment deposition elevated lichen lines	algal mat/aufwuchs aquatic fauna	aquatic bryotphytes tussocks/hummock	
13. Water table:14. Water color:15. Water column:16. Altered hydrology	✓ at the surface ✓ tannic non-tanr sphagnum present	below surface	Standing water: If cloudy, why? exposed roots	present at suspended sedin	esent
	inapprop	riate vegetation List ina	lichen lines:		onormal
1.		2.	ppropriate regulation	3.	
4.		5.		6.	
17. Wildlife usage and animal recrickets and bees	natural history observatio	marks frog calls		oods observed re	rd nests/calls
18. Exotic species:	present / absent			- U	
Consiss	if p	resent must be georefere Location		latitude	la pariturala
Species: % cover: □ 0-1%	1-5% 6-25%	26-50% 51-75%	76-100%	iatitude	longitude
Species:		Location		latitude	longitude
% cover:	1-5%6-25%	26-50% 51-75%	76-100%		3
19. Notes on the gene	ral aspect of the site/tec	hniques to meet restora	tion goals:		
Site is/has If planted	iii c suppi csscu	yes on no appropriately managed not bedded but managed prescribed burn	secondary growth	planted cl	upplemental planting/seeding needed ear-cut 10 yrs
	•	otes on restoration, obs	ervations, or adaptive		iques:
Reduce canopy and cor	ntinue prescribed burning	as per the mitigation plan.			

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Site Name:	Breakfast Point	int Plant community type: Cypress Flat						
Transect ID:	BPQT10_P5		Date and time (a	ım/pm):	12/22/200	4 🗸 AM	PM	
1. Weather:	Full Sun	Part Sun	Cloudy	Cloudy	and Rain/Fog			
2. Temperature:	20-50 F	✓ 51-70 F	71-90 F	91-110	F			
3. CANOPY % cover:	Pine Pla	antation (Rows)	Managed for Pi	ne	Natural F	orest		
	Absent	0-1% 1-5%	√ 6-25%	26-50% 51-75%	76-100%	·)		
4. Estimated height class	ss of the majority of TRE	ES using the following sc	ale:	absent	3-5m	6-10m	>10m	
		List 3 dominant	TREE species obser	ved in canopy:				
1. Taxodium	ascendens	2. Pinus elli	ottii		3.			
5. Estimated height class	ss of the majority of SUB	CANOPY using the follow	ving scale:	absent	✓ 3-5m	6-10m	>10m	
		List 3 dominant	SUBCANOPY spec	cies observed:				
 Taxodium ascendens Pinus elliottii 				3.				
6. SHRUBS % cover:		Absent 0-1%	1-5% <i>d</i>	o-25% 26-50%	51-75%	76-100%		
		List 3 domin	ant SHRUB species	observed:				
 Myrica ceri 	fera	2. Nyssa sy	lvatica v. ursina		3. Photinia py	rifolia (=Aron	ia arbutifolia)	
7. Estimated height class	ss of the majority of SHR	UBS using the following	scale:	absent	05m	.6-1.5m	✓ 1.6-3m	
		List 3 of the most commo	n SHRUB and/or TR	EE seedlings obse	erved:			
 Myrica ceri 	fera	2. Taxodiun	n ascendens		3. Pinus elliottii			
8. GROUNDCOVER %	cover of graminoids (gra	asses, sedges and rushes	s):					
	Absent	0-1% 1-5%	6-25%	26-50%	76-100%			
9. TOTAL GROUNDCO	VER % cover (including	graminiods and forbes):						
	Absent	0-1% 1-5%	6-25%	26-50% 51-75%	76-100%)		
		List 4 dominant C	BROUNDCOVER sp	ecies observed:				
1. Panicum virgatum 2. Andropogo								
3	. Ludwigia pilosa		4. Spa	rtina patens				
		List 3 of the most comm	non GROUNDCOVE	R seedlings observ	ved:			
1. Andropogo	on virginicus	2. Ludwigia	pilosa		3.			
		List the WEED	Y or RUDERAL spec	cies observed:				
1. Andropogo	on virginicus	2.			3.			

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10. Tree density: 11. Tree health:	appropriate trees healthy	inappropriate trees stressed	Why?: too den		too sparse			
12. Hydrologic indicat 13. Water table: 14. Water color: 15. Water column: 16. Altered hydrology	ors: y hydric soils rafted debris water stained at the surface tannic non-tanr sphagnum present soil subs	sediment deposition legislation elevated lichen lines legislation/ stain lines legislation/ stain lines legislation/ stain lines legislation/ cloudy legislation of muck lidence / oxidation of muck ligislation elevation	✓ algal mat/aufwuchs ✓ aquatic fauna morphological plant adap Standing water: If cloudy, why? □ exposed roots □ lichen lines: ppropriate vegetation:	present suspended	nocks secondary flow is roots/buttressed trunks/hisabsent	v channels ypertrophied lenticles		
1.		2.	ppropriate regetation.	3.				
4. 5. 6. 17. Wildlife usage and natural history observations: footprints scat herbivory observed animal remains scratch marks frog calls arthropods observed Notes on wildlife useage observed: robins feeding on Nyssa ursina fruit and Myrica cerifera. Wintering warblers in shrubs.								
18. Exotic species:	present absent If p	resent must be georefer	enced and include the fo	ollowing informati	ion:			
Species: % cover: 0-1%		Location 26-50% 51-75%	: 76-100%	latitude		longitude		
Species:		Location		latitude		longitude		
% cover:	1-5%6-25% ral aspect of the site/tec	26-50% 51-75% hniques to meet restora	76-100% tion goals:					
ls natural r Site is/has If planted	egeneration occuring? i: fire suppressed i: bedded and planted endations for restoration	yes no no appropriately managed not bedded but manage	and: species secondary growth ed for pine ~Tree ag mechanical treatment	other:	supplemental planting/second clear-cut 11-20 yrs 11-20 yrs	_		
Reduce canopy and co	ntinue prescribed burning	·	•		•			

Site Name:	Breakfast Point	st Point Plant community type: Mesic Pine Flatwoods						
Transect ID:	BPQT11_P1		Date and time	(am/pm):	11/2/200	6 AM	✓ PM	
1. Weather:	✓ Full Sun	Part Sun	Cloudy	Clo	oudy and Rain/Fog			
2. Temperature:	20-50 F	✓ 51-70 F	71-90 F	91	-110 F			
3. CANOPY % cover:	✓ Pine Pla	antation (Rows)	Managed for	Pine	Natural	Forest		
	Absent	0-1% 1-5%	6-25%	26-50% 51	-75% 76-100%	6		
4. Estimated height class	s of the majority of TREE	ES using the following s	cale:	ab	sent 3-5m	✓ 6-10m	>10m	
		List 3 dominan	t TREE species obs	erved in canopy	•			
1. Pinus elliot	tii	2.			3.			
5. Estimated height class	s of the majority of SUB	CANOPY using the follo	owing scale:	ab	sent 3-5m	✓ 6-10m	>10m	
		List 3 dominar	nt SUBCANOPY spe	ecies observed:				
 Pinus elliot 	tii	2. Myrica o	cerifera		3.			
6. SHRUBS % cover:		Absent 0-1%	1-5%	6-25% 26	-50% 51-75%	76-100%	,	
		List 3 dom	inant SHRUB specie	es observed:				
 Myrica ceri 	fera	2. Ilex vom	nitoria		3.			
7. Estimated height class	ss of the majority of SHR	UBS using the following	scale:	ab	sent 05m	6-1.5m	✓ 1.6-3m	
	L	ist 3 of the most comm	on SHRUB and/or T	REE seedlings	observed:			
1.		2.			3.			
8. GROUNDCOVER $\%$	cover of graminoids (gra	sses, sedges and rushe	es):					
	Absent	0-1% 1-5%	6-25%	26-50% 🗸 51-	-75% 76-100%	6		
9. TOTAL GROUNDCO	OVER % cover (including	graminiods and forbes)	:					
	Absent	0-1% 1-5%		26-50% 🗹 51		6		
		List 4 dominant	GROUNDCOVER s	pecies observed	d:			
1	 Cladium jamaicense 		2. Pa	inicum spp				
3	Spartina patens		4.					
		List 3 of the most com	mon GROUNDCOV	ER seedlings ob	served:			
1.		2.			3.			
		List the WEEL	OY or RUDERAL spe	ecies observed:				
roal foot Doint Mitigation 2000	C Annual Manitarina Danart	2.			3.			

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10. Tree density: 11. Tree health:	appropriate trees healthy	✓ inappropriate ✓ trees stressed	Why?: too den		o sparse o wet			
12. Hydrologic indicat 13. Water table: 14. Water color: 15. Water column: 16. Altered hydrology:	ors: hydric soils rafted debris water stained at the surface tannic non-tanr sphagnum present soil subs	sediment deposition elevated lichen lines vegetation/ stain lines below surface cloudy utricularia present idence / oxidation of muck	algal mat/aufwuchs	aquatic bryotphytes tussocks/hummock stations/adventitious roc present suspended sedir abnormal tree for	aquatic plants s secondary flow channels ots/buttressed trunks/hypertrophied lenticles osent			
1.		2.	ppropriate regulation.	3.				
4. 5. 6. 17. Wildlife usage and natural history observations:								
18. Exotic species:	present / absent							
	If p	resent must be georefere		•				
Species:		Location		latitude	longitude			
% cover: 0-1% Species: % cover: 0-1% 19. Notes on the gene	1-5% 6-25% 1-5% 6-25% ral aspect of the site/tec	26-50% 51-75% Location 26-50% 51-75% hniques to meet restorate	76-100%	latitude	longitude			
	egeneration occuring?	yes 🗸 no	and: 🗸 species	appropriate su	upplemental planting/seeding needed			
If planted	i: / fire suppressed i: / bedded and planted endations for restoration		secondary growth d for pine ~Tree ag mechanical treatment	ie:	ear-cut 10 yrs			
	Specific r	otes on restoration, obs			iques:			
Reduce canopy and cor	ntinue prescribed burning	as per the mitigation plan.						

Site Name:	Breakfast Point	Plant community type: Mesic Pine Flatwoods							
Transect ID:	BPQT11_P2	Da	ate and time (am/pm)	: 11/7/200	06 AM	✓ PM			
1. Weather:	✓ Full Sun	Part Sun	Cloudy	Cloudy and Rain/Fog					
2. Temperature:	20-50 F	✓ 51-70 F	71-90 F	91-110 F					
3. CANOPY % cover	r:	antation (Rows)	Managed for Pine	Natural	Forest				
	Absent	0-1% 1-5%	6-25% 26-50%	51-75% 76-100	%				
4. Estimated height of	lass of the majority of	TREES using the following		absent 3-5m	✓ 6-10m	>10m			
		List 3 dominant TRE	EE species observed i	n canopy:					
1. Pinus elliotti		2.		3.					
5. Estimated height of	lass of the majority of	SUBCANOPY using the f		absent 3-5m	✓ 6-10m	>10m			
	List 3 dominant SUBCANOPY species observed:								
1. Pinus elliotti		2.		3.					
6. SHRUBS % cover	·:	Absent 0-1%	1-5%6-25%	26-50% 51-75%	76-100%				
		List 3 dominant	SHRUB species obse	erved:					
1. Ilex vomitori		2. Ilex glabra		3.					
7. Estimated height of		SHRUBS using the follow		absent 05m	.6-1.5m	1.6-3m			
		: 3 of the most common S	HRUB and/or TREE s	eedlings observed:					
1. Ilex vomit	oria	2. Ilex glabra		3.					
8. GROUNDCOVER %	cover of graminoids (gra	asses, sedges and rushes):							
	Absent		6-25% 26-50%	☐ 51-75%	%				
9. TOTAL GROUNDCO		graminiods and forbes):							
	Absent		6-25% 26-50%	51-75% 76-100	%				
		List 4 dominant GRC	DUNDCOVER species	observed:					
	1. Serenoa repens		2. Ilex glabra						
	3. Arista stricta		4. Toxidendron						
	L	ist 3 of the most common	GROUNDCOVER see	edlings observed:					
1.		2.		3.					
		List the WEEDY or	RUDERAL species o	bserved:					
1		2		2					

10. Tree density:	appropriate trees healthy	inappropriate trees stressed	Why?: too den	_	too sparse too wet
12. Hydrologic indicator 13. Water table: 14. Water color: 15. Water column:	rafted debris	sediment deposition elevated lichen lines vegetation/ stain lines below surface ic/clear cloudy utricularia present	algal mat/aufwuchs aquatic fauna morphological plant adap Standing water: If cloudy, why?	present	nocks secondary flow channels s roots/buttressed trunks/hypertrophied lenticles absent
16. Altered hydrology:	=	idence / oxidation of muck	exposed roots		ee fall due to soil subsidence
		riate vegetation	lichen lines: ppropriate vegetation	typical .•	abnormal
1.		2.	ppropriate regulation	3.	
4.		5 .		6.	
17. Wildlife usage and n animal remain Hog rutting and deer prints, dea	ns scratch n	narks frog cal			bird nests/calls fish observed reptiles observed mammals observed
18. Exotic species:	present absent If pres	ent must be georefer	enced and include the	following inform	nation:
Species:		Locatio	n:	latitude	longitude
% cover: 0-1%	1-5% 6-25%	26-50% 51-75%	76-100%		
Species:		Locatio	n:	latitude	longitude
% cover: 0-1%	1-5% 6-25%	26-50% 51-75%	76-100%		
19. Notes on the genera		e/techniques to meet	restoration goals:		
	generation occuring?	yes no		appropriate	supplemental planting/seeding needed
	fire suppressed	appropriately manage		planted	clear-cut
	bedded and planted dations for restoration	not bedded but manag	ged for pine ~Tree ag which was a second results and the second results and the second results are a second results and the second results are a second results and the second results are a second r		6-10 yrs 11-20 yrs 20+ yrs
			servations, or adaptive		t techniques:
Poduce capony and cont	•	ning as per the mitigat	•		

Site Name:	Breakfast Point		Plant com	mmunity type: Mesic Pine Flatwoods					
Transect ID:	BPQT12_P1			Date and t	ime (am/pm)	:	11/3/2006	S ✓ AM	PM
1. Weather:	Full Sun	Part Sun		Cloudy					
2. Temperature:	20-50 F	√ 51-70 F			1.6 81	91-110 F			
3. CANOPY % cover:		ne Plantation (Rows)			d for Pine		Natural F		
		bsent 0-1%	1-5%	√ 6-25%	26-50%	<u></u> 51-75%	76-100%		
4. Estimated height class	ss of the majority of	-				absent	3-5m	6-10m	√ >10m
				REE species	observed in				
1. Pinus elliot		2.				3	•		
5. Estimated height class of the majority of SUBCANOPY using the following			ng scale:		✓ absent	3-5m	6-10m	>10m	
		List 3	dominant	SUBCANOP	Y species obs	served:			
1.		2.				3			
6. SHRUBS % cover:		Absent	0-1%	✓ 1-5%	6-25%	26-50%	√ 51-75%	76-100%	
		Lis	st 3 domina	int SHRUB sp	pecies observ	ed:			
1. Illx glabra		2.	llex vomito	oria		3	•		
7. Estimated height class	s of the majority of	SHRUBS using the	following so	cale:		absent	05m	✓ .6-1.5m	1.6-3m
		List 3 of the mo	st common	SHRUB and	or TREE see	dlings observ	/ed:		
1.		2.				3.			
8. GROUNDCOVER %	cover of graminoids	s (grasses, sedges a	nd rushes):	:					
	Al	bsent 0-1%	√ 1-5%	6-25%	26-50%	51-75%	76-100%		
9. TOTAL GROUNDCO	VER % cover (inclu	uding graminiods and	d forbes):						
	Al	bsent 0-1%	1-5%	6-25%	26-50%	<u> </u>	76-100%		
		List 4 d	lominant Gl	ROUNDCOV	ER species of	bserved:			
1. Serenoa repens 2. Arista strict					a				
3	Panicum verrucos	sum		4	1 .				
		List 3 of the m	nost commo	on GROUND	COVER seed	lings observe	d:		
1.		2.				3			
		List th	ne WEEDY	or RUDERA	L species obs	served:			
roal-fact Daint Mitigation 2004	C Annual Manitarina D	2.				3			

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10. Tree density: 11. Tree health:	appropriate trees healthy	inappropriate trees stressed	Why?: too den	=	sparse wet
12. Hydrologic indicat 13. Water table: 14. Water color: 15. Water column: 16. Altered hydrology:	rafted debris water stained at the surface tannic non-tan sphagnum present soil subs	sediment deposition elevated lichen lines vegetation/ stain lines below surface nic/clear cloudy utricularia present sidence / oxidation of muck priate vegetation List ina	algal mat/aufwuchs aquatic fauna morphological plant adapt Standing water: If cloudy, why? exposed roots lichen lines:	present abs	
1.		2.	, , , , , , , , , , , , , , , , , , ,	3.	
4.		5.		6.	
animal remockingbird		marks frog call		ods observed rep	d nests/calls
18. Exotic species:	present date absent	present must be georefer	enced and include the fo	ollowing information:	
Species: 0-1%		Location 26-50% 51-75%		latitude	longitude
Species:		Location	n:	latitude	longitude
_	=	26-50% 51-75% chniques to meet restora	76-100% ation goals:		
	egeneration occuring?	yes no			pplemental planting/seeding needed
Site is/has If planted Recomme	 ☐ fire suppressed ☐ bedded and planted ndations for restoration 	appropriately managed not bedded but managed prescribed burn		e : 0-5 yrs 6-10	ar-cut 0 yrs
		notes on restoration, obs	servations, or adaptive	management technic	ques:
Reduce canopy and cor	ntinue prescribed burning	as per the mitigation plan	i.		

Site Name:	Breakfast Point			Plant com	munity type:	Mesic Pine	Flatwoods			
Transect ID:	BPQT12_P2			Date and ti	ime (am/pm):		11/3/2006	S ✓ AM	PM	
1. Weather: 2. Temperature:	Full Sun	Part Sun 51-70 F		Cloudy 71-90 F		Cloudy a	nd Rain/Fog			
3. CANOPY % cover:	✓ Pine Plar Absent	ntation (Rows)	1-5%	Managed	I for Pine	51-75%	Natural F	orest		
4. Estimated height clas	s of the majority of TREE				20-3070	absent	3-5m	✓ 6-10m	✓ >10m	
		List 3	dominant TF	REE species	observed in o					
1. Pinus elliot	tii	2.				3.				
5. Estimated height class	s of the majority of SUBC	ANOPY using	g the followin	ng scale:		absent	3-5m	✓ 6-10m	>10m	
		List 3	dominant S	UBCANOPY	species obs	erved:				
 Pinus elliot SHRUBS % cover: 	tii	2. Absent	0-1%	√ 1-5%	6-25%	36-50%	✓ 51-75%	76-100%		
o. Shkobs % cover.					pecies observ		31-7370			
1. Myrica ceri	fera		Nyssa ursir	•	00000		. Ilex vomitor	ia		
•	s of the majority of SHRU		•			absent	05m	 .6-1.5m	1.6-3m	
	, ,	ist 3 of the mo			or TREE see				1.0 0	
1.		2.				3.				
8. GROUNDCOVER $\%$	cover of graminoids (gras	ses, sedges a	and rushes):							
9. TOTAL GROUNDCO	Absent VER % cover (including of	0-1%	1-5%	6-25%	26-50%	51-75%	76-100%			
	Absent	0-1%	1-5%	6-25%	26-50%	51-75%	76-100%			
					ER species ob					
1	· Cladium jamenesense			2	. Juncus rom	arianus				
	- Spartina patens			4	- Hydrocotyle	sp.				
		List 3 of the n	nost commo			<u> </u>	d:			
1.		2.				3.	•			
		List tl	he WEEDY o	or RUDERA I	L species obs	erved:				
eakfast Point Mitigation 2006 CC# 04-310	6 Annual Monitoring Report	2.				3.				73 c

10. Tree density: 11. Tree health:	appropriate trees healthy	✓ inappropriate ✓ trees stressed	Why?: too den		o sparse o wet	
12. Hydrologic indicat 13. Water table: 14. Water color: 15. Water column: 16. Altered hydrology	hydric soils rafted debris water stained at the surface tannic non-tanr sphagnum present soil subs	sediment deposition elevated lichen lines vegetation/ stain lines below surface cloudy utricularia present idence / oxidation of muck	algal mat/aufwuchs	aquatic bryotphytes tussocks/hummockstations/adventitious roc present absorbed sedin abnormal tree fa	aquatic plants secondary flow channels ots/buttressed trunks/hypertrophied lenticles usent	
1.		2.	ppropriate regetation.	3.		
4. 5. 6. 17. Wildlife usage and natural history observations: footprints scat herbivory observed animal remains scratch marks frog calls arthropods observed Notes on wildlife useage observed: reptiles observed mammals observed						
crickets 18. Exotic species:	present / absent					
	If p	resent must be georefere	enced and include the fo	ollowing information:		
Species: 0-1%	☐ 1-5% ☐ 6-25%	Location	: 76-100%	latitude	longitude	
Species: 0-1%	1-5% 6-25%	Location 26-50% 51-75%		latitude	longitude	
		hniques to meet restora	ion goals:			
Site is/has If planted	regeneration occuring? if if if if if if if if if if if if if i	yes no appropriately managed not bedded but managed prescribed burn prescribed burn otes on restoration, obs	secondary growth d for pine ~Tree ag mechanical treatment	planted cle le: 0-5 yrs 6- other:	applemental planting/seeding needed ear-cut 10 yrs 11-20 yrs 20+ yrs	
Reduce canopy and co	-	as per the mitigation plan.	•	management techn	iques.	

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Site Name:	Breakfast Point		Plant communi	ity type: Mesic Pi	ne Flatwoods		
Transect ID:	BPQT13_P1		Date and time (a	am/pm):	11/1/2004	· 🗸 AM	PM
 Weather: Temperature: 	Full Sun 20-50 F	Part Sun 51-70 F	☐ Cloudy ✓ 71-90 F	Cloud	y and Rain/Fog 0 F		
3. CANOPY % cover:	✓ Pine Plar	ntation (Rows)	Managed for P	ine	Natural F	orest	
	Absent	0-1% 1-5%	6-25%	26-50% 51-759	%		
4. Estimated height class	s of the majority of TREE	S using the following scale) :	absent	3-5m	✓ 6-10m	✓ >10m
		List 3 dominant TR	REE species obse	rved in canopy:			
1. Pinus elliott	ii	2.			3.		
5. Estimated height class	s of the majority of SUBC	CANOPY using the following	ig scale:	absent	3-5m	✓ 6-10m	>10m
		List 3 dominant S	UBCANOPY spec	cies observed:			
1.		2.			3.		
6. SHRUBS % cover:		Absent 0-1%	1-5%	6-25% 26-509	% 51-75%	76-100%	
List 3 dominant SHRUB species observed:							
1. Ilex glabra		2.			3.		
7. Estimated height class	s of the majority of SHRU	IBS using the following sca	ale:	absent	05m	✓ .6-1.5m	1.6-3m
	L	ist 3 of the most common \$	SHRUB and/or TF	REE seedlings obs	erved:		
1.		2.			3.		
8. GROUNDCOVER %	cover of graminoids (gras	ses, sedges and rushes):					
	Absent		6-25%	26-50% 51-759	% 76-100%		
9. TOTAL GROUNDCO	VER % cover (including of	graminiods and forbes):					
	Absent	0-1% 1-5%	6-25%	26-50% 51-759	% 76-100%		
		List 4 dominant GR	OUNDCOVER sp	pecies observed:			
1.	· Serenoa repens		2. Vitis	s rotundifolia			
3.	· Ilex glabra		4. Que	ercus minima			
		List 3 of the most commor	GROUNDCOVE	R seedlings obser	ved:		
1.		2.			3.		
		List the WEEDY of	or RUDERAL spe	cies observed:			
Breakfast Point Mitigation 2006	Annual Monitoring Report	2.			3.		

10. Tree density: 11. Tree health:	☐ appropriate ✓ trees healthy	inappropriate trees stressed	Why?: too den	=	sparse wet
12. Hydrologic indicat 13. Water table: 14. Water color: 15. Water column: 16. Altered hydrology:	rafted debris water stained at the surface tannic non-tanr sphagnum present soil subs	utricularia present idence / oxidation of muck	algal mat/aufwuchs aquatic fauna morphological plant adapt Standing water: If cloudy, why? exposed roots lichen lines:	present abse abse	
1.		2.		3.	
animal re	box turtle and mosquitos	marks frog calls Notes on w	arthrope art	ods observed	nests/calls
Species:	пр	resent must be georefere Location:		latitude	longitude
% cover: 0-1% Species: % cover: 0-1%	1-5% 6-25% 1-5% 6-25% ral aspect of the site/tec	26-50% 51-75% Location: 26-50% 51-75% hniques to meet restorat	76-100% 76-100%	latitude	longitude
ls natural r	egeneration occuring?	☐ yes ✓ no		appropriate supp	plemental planting/seeding needed
Site is/has If planted Recomme	i: fire suppressed i: bedded and planted endations for restoration		secondary growth d for pine ~Tree ago mechanical treatment		
	•	otes on restoration, obs	ervations, or adaptive		ues:
Reduce canopy and cor	ntinue prescribed burning	as per the mitigation plan.			

Site Name:	Breakfast Point		Plant community ty	pe: Cypress Flat				
Transect ID:	BPQT13_P2		Date and time (am/p	m): 11/1	/2004 🗸 AM	PM		
 Weather: Temperature: 	Full Sun 20-50 F	Part Sun 51-70 F	☐ Cloudy ✓ 71-90 F	Cloudy and Rain	Fog			
3. CANOPY % cover:	Pine F	Plantation (Rows)	Managed for Pine	✓ Na	tural Forest			
	Abser	nt 0-1% 1-5%	6-25% 26-50	% 51-75% 76-	100%			
4. Estimated height class	s of the majority of TR I	EES using the following so	cale:	absent 3-5	m 6-10m	√ >10m		
	List 3 dominant TREE species observed in canopy:							
1. Taxodium	ascendens	2. Magnolia	a virginiana	3. Pinus	elliiottii			
5. Estimated height class	s of the majority of SU	BCANOPY using the follo	wing scale:	absent 3-5	m 🗸 6-10m	>10m		
List 3 dominant SUBCANOPY species observed:								
 Pinus elliottii Nyssa sylvatica v. 			ylvatica v. biflora	3. Magn	olia virginiana			
6. SHRUBS % cover:		Absent 0-1%	1-5% 4-259	6 26-50% 51	75% 76-1009	%		
		List 3 domi	nant SHRUB species obs	erved:				
1. Clethra alnifolia2. Myrica cerifera3. Ilex coriacea								
7. Estimated height class	ss of the majority of SH	RUBS using the following	scale:	absent 0	5m 🗹 .6-1.5m	1.6-3m		
		List 3 of the most commo	on SHRUB and/or TREE	seedlings observed:				
1.		2.		3.				
8. GROUNDCOVER $\%$	cover of graminoids (g	rasses, sedges and rushe	s):					
	✓ Abser	nt 0-1% 1-5%	6-25% 26-50	% 51-75% 76-	100%			
9. TOTAL GROUNDCO	OVER % cover (includin	g graminiods and forbes):						
	Abser		6-25% 26-50		100%			
		List 4 dominant	GROUNDCOVER specie	s observed:				
1	 Lyonia lucida 		2. Pieris s)				
3	Clethera alnifolia		4.					
		List 3 of the most comr	mon GROUNDCOVER se	edlings observed:				
1.		2.		3.				
		List the WEED	Y or RUDERAL species	observed:				
roal-fact Daint Mitigation 2004	S Annual Manitaring Dana	2.		3.				

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10. Tree density: ✓ appropriate inappropriate 11. Tree health: ✓ trees healthy trees stressed	Why?: ☐ too dense ☐ too sparse ☐ too wet						
12. Hydrologic indicators: Application Application Application Altered hydrology: Application Applica	algal mat/aufwuchs aquatic bryotphytes aquatic plants aquatic fauna tussocks/hummocks secondary flow channels morphological plant adaptations/adventitious roots/buttressed trunks/hypertrophied lenticles Standing water: present absent suspended sediments other: exposed roots abnormal tree fall due to soil subsidence lichen lines: typical abnormal propriate vegetation:						
1. 2.	3.						
4. 5.	6.						
17. Wildlife usage and natural history observations:							
	enced and include the following information:						
Species: Location % cover: □ 0-1% □ 1-5% □ 6-25% □ 26-50% □ 51-75%	: latitude longitude						
Species: Location	: latitude longitude						
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% 19. Notes on the general aspect of the site/techniques to meet restora	76-100%						
Is natural regeneration occuring? Site is/has: fire suppressed appropriately managed planted: bedded and planted Recommendations for restoration: prescribed burn	and:						
Specific notes on restoration, obs Allow prescribed fire to burn into swamp and marsh as per the mitigation p	servations, or adaptive management techniques:						

Site Name:	Breakfast Point		Plant community type	: Hydric Pine Flatwoods				
Transect ID:	BPQT13_P3		Date and time (am/pm): 12/21/2004	AM ✓ PM			
1. Weather:	Full Sun	Part Sun	Cloudy	✓ Cloudy and Rain/Fog				
2. Temperature:	20-50 F	✓ 51-70 F	71-90 F	91-110 F				
3. CANOPY % cover	Pine Pla	antation (Rows)	Managed for Pine	Natural Fores	t			
	Absent	0-1% 1-5%	6-25% 26-50%	☐ 51-75% ☐ 76-100%				
4. Estimated height of	lass of the majority of	TREES using the follow	ving scale:	absent 3-5m	6-10m >10m			
		List 3 dominant T	REE species observed	in canopy:				
1. Taxodium a	scendens	2. Pinus elliot	ttii	Magnolia virginia	na			
5. Estimated height of	lass of the majority of	SUBCANOPY using th	e following scale:	absent 3-5m	6-10m			
	List 3 dominant SUBCANOPY species observed:							
 Nyssa biflor 	a	2. Cyrilla mor	nophylla	3. Magnolia virginia	na			
6. SHRUBS % cover	•	Absent 0-1%	1-5% 4-25%	26-50% 51-75% C	76-100%			
		List 3 domina	ant SHRUB species obs	erved:				
 Clethra alnif 	olia	2. Ilex coraice	ea	3. Ilex vomitoria				
7. Estimated height of	lass of the majority of	SHRUBS using the foll	owing scale:	absent 05m	.6-1.5m 🗹 1.6-3m			
	List	3 of the most common	SHRUB and/or TREE s	seedlings observed:				
1.		2.		3.				
8. GROUNDCOVER %	cover of graminoids (gra	sses, sedges and rushes):					
	Absent	0-1% 1-5%		51-75% 76-100 %				
9. TOTAL GROUNDCO	OVER % cover (including	graminiods and forbes):						
	Absent	0-1% 1-5%	6-25% 26-50%	√ 51-75%				
		List 4 dominant GI	ROUNDCOVER species	s observed:				
	1. Cladium jamaicense		2. Aristida stri	ota				
:	3. Andropogn virginicus		4. Juncus rom	arianus				
	Li	st 3 of the most commo	on GROUNDCOVER se	edlings observed:				
1.		2.		3.				
		List the WEEDY	or RUDERAL species of	observed:				
		•						

10. Tree density: 11. Tree health:	appropriate trees healthy	✓ inappropriate ✓ trees stressed	Why?: ✓ too dense Why?: ✓ too dense	too sparse too wet			
12. Hydrologic indid	rafted debris	sediment deposition elevated lichen lines elevation/ stain lines	aquatic fauna ussock	bryotphytes			
13. Water table:	✓ at the surface	below surface	Standing water:	ent absent			
14. Water color:	tannic non-tanr	ic/ <u>clear</u> cloudy	If cloudy, why? Susp	ended sediments other:			
15. Water column:	sphagnum present	utricularia present	_				
16. Altered hydrolog	gy: soil subs	dence / oxidation of muck	exposed roots abno	ormal tree fall due to soil subsidence			
		riate vegetation	☐ lichen lines: ☐ typic	al abnormal			
		List inapp	propriate vegetation:				
1.		2.		3.			
4.		5.		6.			
17. Wildlife usage and natural history observations: footprints scat herbivory observed bird nests/calls fish observed							
	animal remains scratch marks frog calls arthropods observed reptiles observed mammals observed						
		Notes on wi	Idlife useage observed:				
18. Exotic species:	✓ present absent						
	If pres	ent must be georeferer	nced and include the following	information:			
Species: Sapium s	ebiferum	Location:	latitude	longitude			
% cover: 0-1%	1-5% 6-25%	26-50% 51-75%	76-100%				
Species:		Location:	latitude	longitude			
% cover: 0-1%	1-5%6-25%	26-50% 51-75%	76-100%				
19. Notes on the ge	neral aspect of the site	e/techniques to meet re	estoration goals:				
Is natu	ral regeneration occuring?	yes no	and:	supplemental planting/seeding needed			
Site is/ha	s: 🗸 fire suppressed	appropriately managed	secondary growth plant				
If plante	d: 🗸 bedded and planted	not bedded but managed	d for pine ~Tree age: 0-5 y	yrs			
Recor	nmendations for restoration	•		ther:			
			rvations, or adaptive manage	ement techniques:			
Canopy reduction an	d prescribed burning as	per the mitigation plan.					

Site Name:	Breakfast Point		Plant community typ	e: Mesic Pin	e Flatwoods	;	
Transect ID:	BPQT14_P1		Date and time (am/pr	n):	12/21/2004	↓ ✓ AM	PM
1. Weather:	✓ Full Sun	Part Sun	Cloudy	Cloudy a	and Rain/Fog		
2. Temperature:	20-50 F	51-70 F	✓ 71-90 F	91-110	F		
3. CANOPY % cove	r: Pine Pla	intation (Rows)	Managed for Pine		Natural F	orest	
	Absent	0-1% 1-5%	6-25% 26-509	% 51-75%	76-100%		
4. Estimated height of	lass of the majority of	TREES using the follow		absent	3-5m	✓ 6-10m	>10m
		List 3 dominant T	REE species observed	I in canopy:			
1. Pinus elliott		2.		;	3.		
5. Estimated height of	lass of the majority of	SUBCANOPY using th		absent	✓ 3-5m	6-10m	>10m
		List 3 dominant	SUBCANOPY species	observed:			
1. Pinus elliott		2. Magnolia v	virginiana		3		
6. SHRUBS % cover	·:	Absent 0-1%	1-5%6-25%		<u>√</u> 51-75%	<u>76-100%</u>	
		List 3 domina	ant SHRUB species ob				
1. Clethra alni		2. Myrica ceri		;	3. Rhus coppali	ina	
7. Estimated height of	<u> </u>	SHRUBS using the following		absent	05m	✓ .6-1.5m	1.6-3m
	List	3 of the most common	SHRUB and/or TREE	seedlings ob	served:		
1.		2.		;	3.		
8. GROUNDCOVER %	cover of graminoids (gra	sses, sedges and rushes)):				
	Absent	0-1% 1-5%	6-25% 26-509	% 51-75%	76-100%		
9. TOTAL GROUNDCO	OVER % cover (including						
	Absent	0-1% 1-5%	6-25% 26-509		<u></u> 76-100%		
		List 4 dominant GI	ROUNDCOVER specie				
	1. Aristida stricta		2. Serenoa r	epens			
:	3. Ilex glabra		4. Clethra alı				
	Lis	st 3 of the most commo	on GROUNDCOVER s	eedlings obse	erved:		
1.		2.			3.		
		List the WEEDY	or RUDERAL species	observed:			
1		2			•		

10. Tree density: 11. Tree health:	appropriate trees healthy	✓ inappropriate ✓ trees stressed	Why?: too dense Why?: too dense		se
12. Hydrologic indic	rafted debris	sediment deposition elevated lichen lines	algal mat/aufwuchs aquatic fauna morphological plant adapta	aquatic bryotphytes tussocks/hummocks tions/adventitious roots/but	aquatic plants secondary flow channels tressed trunks/hypertrophied lenticles
13. Water table:	at the surface	below surface	Standing water:	present absent	
14. Water color:	tannic non-tan	nic/clear cloudy	If cloudy, why?	suspended sediments	other:
15. Water column:	sphagnum present	utricularia present			
16. Altered hydrolog	Jy: soil subs	sidence / oxidation of muck	exposed roots	abnormal tree fall due	to soil subsidence
	inapprop	oriate vegetation	lichen lines:	typical abnorma	al
		List inap	propriate vegetation:		
1.		2.		3.	
4.		5.		6.	
17. Wildlife usage ar	nd natural history obse		s scat herbivory	observed J bird nes	ts/calls fish observed
animal re					observed mammals observed
	Solution	• •	ildlife useage observe		
ferral pig and deer tracks o	bserved, ferral pig sact obse				kets and mosquitos observed
18. Exotic species:	present / absent				
		ent must be georefere	enced and include the fo	ollowing information:	
Species:		Location	1:	latitude	longitude
% cover: 0-1%	1-5% 6-25%	26-50% 51-75%	76-100%		
Species:		Location	n:	latitude	longitude
% cover: 0-1%	1-5% 6-25%	26-50% 51-75%	76-100%		
19. Notes on the ger	neral aspect of the sit	e/techniques to meet	restoration goals:		
Is natura	al regeneration occuring?	yes 🗸 no	and: species a	ppropriate supplem	ental planting/seeding needed
Site is/has	ii 🗸 fire suppressed	appropriately managed	secondary growth	planted clear-cu	t
	l: 🔽 bedded and planted	not bedded but manage		= =	11-20 yrs 20+ yrs
Recom	mendations for restoration		mechanical treatment	other:	5 — 5
	Specific note	es on restoration, obs	ervations, or adaptive	management technic	ques:
Canopy reduction and	d prescribed burning as	s per the mitigation plan			

Site Name:	Breakfast Point		Plant community t	ype: Bayhead				
Transect ID:	BPQT14_P2		Date and time (am/	om):	12/21/2004	1 🗸 AM	PM	
1. Weather:	✓ Full Sun	Part Sun	Cloudy	Cloudy a	nd Rain/Fog			
2. Temperature:	20-50 F	51-70 F	✓ 71-90 F	91-110 F	•			
3. CANOPY % cover:	Pine Pla	intation (Rows)	Managed for Pine		Natural F	orest		
	Absent	0-1% 1-5%	6-25% 26-5	0% 51-75%	76-100%			
4. Estimated height class	ss of the majority of TRE	ES using the following so	cale:	absent	3-5m	6-10m	√ >10m	
		List 3 dominant	TREE species observed	l in canopy:				
 Nyssa biflo 	ra	2. Magnolia	a virginiana	3	. Persea palı	ustris		
5. Estimated height class	ss of the majority of SUB	CANOPY using the follo	wing scale:	absent	3-5m	✓ 6-10m	>10m	
		List 3 dominan	t SUBCANOPY species	observed:				
1. Nyssa biflo	ra	2. Magnolia	a virginiana	3				
6. SHRUBS % cover:		Absent 0-1%	1-5% 46-25	% 26-50%	<u></u> 51-75%	76-100%		
	List 3 dominant SHRUB species observed:							
1. Lyonia luci	1. Lyonia lucida2. Clethra alnifolia3. Nyssa biflora							
7. Estimated height class	ss of the majority of SHR	UBS using the following	scale:	absent	05m	.6-1.5m	1.6-3m	Absent
	l	ist 3 of the most commo	on SHRUB and/or TREE	seedlings observ	ved:			
1.		2.		3				
8. GROUNDCOVER %	cover of graminoids (gra	sses, sedges and rushe	s):					
	✓ Absent	0-1% 1-5%	6-25% 26-5	0% 51-75%	76-100%			
9. TOTAL GROUNDCO	VER % cover (including	graminiods and forbes):						
	Absent	0-1% 41-5%	6-25% 26-5	0% 51-75%	76-100%			
		List 4 dominant	GROUNDCOVER speci	es observed:				
1	· Lyonia lucida		2. Clethra	alnifolia				
3	3.		4.					
		List 3 of the most comm	mon GROUNDCOVER s	eedlings observe	ed:			
1.		2.		3	•			
		List the WEED	Y or RUDERAL species	observed:				
real-fact Baint Mitigation 200	2 A I M 'I ' D I	2.		3				

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Appendix B: Qualitative Monitoring Data Results

10. Tree density: 11. Tree health:	appropriate trees healthy	✓ inappropriate✓ trees stressed	Why?: doo dens		parse vet
12. Hydrologic indicat 13. Water table: 14. Water color: 15. Water column: 16. Altered hydrology:	rafted debris water stained at the surface tannic non-tanr sphagnum present soil subs	utricularia present idence / oxidation of muck	algal mat/aufwuchs aquatic fauna morphological plant adapt Standing water: If cloudy, why? exposed roots lichen lines:	present absersuspended sedimer	nts other: due to soil subsidence
1.		2.		3.	
4. 17. Wildlife usage and	natural history observatio	5. ons: footprints	scat herbivor	6. Ty observed J bird	nests/calls fish observed
animal re	emains scratch r		✓ arthroporildlife useage observed		les observed mammals observed
Red shouldered hawk a	nd monarch butterfly				
18. Exotic species:	present absent	resent must be georefere	unced and include the fo	llowing information:	
Species:	ΠP	Location:		latitude	longitude
% cover: 0-1%	1-5% 6-25%	26-50% 51-75%	76-100%	latituue	iongitude
Species:		Location:		latitude	longitude
% cover: 0-1%	☐ 1-5% ☐ 6-25%	<u>26-50%</u> <u>51-75%</u>	76-100%		
_		hniques to meet restorat			
Site is/has If planted	iii c suppi csscu	yes no appropriately managed not bedded but manage	secondary growth d for pine ~Tree age	planted clear 0-5 yrs 6-10	
110001111110		l: ☑ prescribed burn otes on restoration, obs	mechanical treatment ervations, or adaptive r		ues:
Allow fire to burn into ed	cotone of bayhead as per	•		3	

Site Name:	Breakfast Point		Plant community ty	pe: Mesic Pine Flatwood	s	
Transect ID:	BPQT14_P3		Date and time (am/p	m): 12/21/2	004 🗸 AM	PM
1. Weather:	✓ Full Sun	Part Sun	Cloudy	Cloudy and Rain/Fo	g	
2. Temperature:	20-50 F	51-70 F	✓ 71-90 F	91-110 F		
3. CANOPY % cover:	✓ Pine Pla	antation (Rows)	Managed for Pine	Natu	al Forest	
	Absent	0-1% 1-5%	6-25% 26-50	% 51-75% 76-10	0%	
4. Estimated height class	ss of the majority of TRE	ES using the following s	cale:	absent 3-5m	√ 6-10m	>10m
		List 3 dominan	t TREE species observed	in canopy:		
 Pinus elliot 	tii	2.		3.		
5. Estimated height class	ss of the majority of SUB	CANOPY using the follo	owing scale:	absent 3-5m	6-10m	>10m
		List 3 dominar	nt SUBCANOPY species	observed:		
1. Cliftonia m	onophylla	2. Magnoli	a virginiana	3.		
6. SHRUBS % cover:		Absent 0-1%	1-5% 6-259	6 26-50%	i%	6
		List 3 domi	inant SHRUB species obs	erved:		
1. Cliftonia m	onophylla	2. Clethera	a spp	3. Ilex glat	ora	
7. Estimated height class	ss of the majority of SHR	UBS using the following	scale:	absent 05n	.6-1.5m	1.6-3m
		List 3 of the most comm	on SHRUB and/or TREE	seedlings observed:		
1.		2.		3.		
8. GROUNDCOVER %	cover of graminoids (gra	asses, sedges and rushe	es):			
	✓ Absent	0-1% 1-5%	6-25% 26-50	% 51-75% 76-10	0%	
9. TOTAL GROUNDCO	VER % cover (including	graminiods and forbes)	:			
	Absent	0-1% 1-5%	6-25% 26-50	% 🔽 51-75% 🗌 76-10	0%	
		List 4 dominant	GROUNDCOVER specie	s observed:		
1	· serenoa repens		2. Clethra	alnifolia		
3	llex glabra		4. Cliftonia	monophylla		
	J	List 3 of the most com	mon GROUNDCOVER se			
1.		2.		3.		
		List the WEED	OY or RUDERAL species	observed:		
roal-fact Daint Mitigation 2004	S Annual Manitaring Danast	2.		3.		

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Appendix B: Qualitative Monitoring Data Results

10. Tree density: 11. Tree health:	appropriate trees healthy	inappropriate trees stressed	Why?: doo den		oo sparse oo wet
12. Hydrologic indicat 13. Water table: 14. Water color: 15. Water column: 16. Altered hydrology:	ors: hydric soils rafted debris water stained at the surface tannic non-tanr sphagnum present soil subs	sediment deposition elevated lichen lines vegetation/ stain lines below surface cloudy utricularia present idence / oxidation of muck	algal mat/aufwuchs	aquatic bryotphyto tussocks/hummoc tations/adventitious ro present suspended sed	es aquatic plants ks secondary flow channels pots/buttressed trunks/hypertrophied lenticles absent
1.		2.		3.	
4. 17. Wildlife usage and animal re	natural history observation	5. Ins: footprints marks frog calls		6. ry observed ods observed	poird nests/calls fish observed reptiles observed mammals observed
lady bug 18. Exotic species:	present / absent				
	If p	resent must be georefere	enced and include the fo	llowing information	
Species:		Location	:	latitude	longitude
% cover: 0-1% Species: % cover: 0-1%	1-5% 6-25%	☐ 26-50% ☐ 51-75% Location ☐ 26-50% ☐ 51-75% hniques to meet restora	76-100%	latitude	longitude
	rai aspect of the site/tec regeneration occuring?		. —	appropriate //	
Site is/has If planted	i: / fire suppressed i: / bedded and planted endations for restoration	yes no appropriately managed not bedded but manage	secondary growth	e: 0-5 yrs	supplemental planting/seeding needed clear-cut 5-10 yrs
	Specific n	otes on restoration, obs	ervations, or adaptive	management tech	niques:
Canopy reduction and p	prescribed burning as per	the mitigation plan.			

Site Name:	Breakfast Point		Plant community typ	e: Hydric Pin	e Flatwoods		
Transect ID:	BPQT15_P1		Date and time (am/pm	n):	12/21/2004 [AM	✓ PM
1. Weather:	✓ Full Sun	Part Sun	Cloudy	Cloudy a	nd Rain/Fog		
2. Temperature:	20-50 F	51-70 F	✓ 71-90 F	91-110 F	:		
3. CANOPY % cove	Pine Pla	ntation (Rows)	Managed for Pine		Natural Fore	est	
	Absent		6-25% 26-50%	6 51-75%	76-100%		
4. Estimated height of	lass of the majority of	TREES using the following		absent	3-5m	✓ 6-10m	>10m
		List 3 dominant TF	REE species observed	in canopy:			
1. Pinus elliott		2.		3			
5. Estimated height of	lass of the majority of	SUBCANOPY using the		absent	3-5m	✓ 6-10m	>10m
		List 3 dominant S	SUBCANOPY species	observed:			
1. Pinus elliott		2. Magnolia vir			. Nyssa biflora	_	
6. SHRUBS % cove	·:	Absent 0-1%	1-5%6-25%	26-50%	51-75%	76-100%	
			nt SHRUB species obs				
1. Ilex glabra		2. Nyssa biflora		3	. Magnolia virgini	iana	
7. Estimated height of	<u> </u>	SHRUBS using the follo		absent		✓ .6-1.5m	1.6-3m
	List	3 of the most common \$	SHRUB and/or TREE	seedlings obs	served:		
1.		2.		3			
8. GROUNDCOVER %	cover of graminoids (gras	sses, sedges and rushes):	:				
	Absent	0-1% 1-5%	6-25% 26-50%	6 √ 51-75%	76-100%		
9. TOTAL GROUNDCO	VER % cover (including	· ·					
	Absent	0-1% 1-5%	6-25% 26-50%		76-100%		
		List 4 dominant GR	ROUNDCOVER specie				
	1. Andropogon		2. Juncus roe	marianus			
	3. Anthaenanthia rufa		4. Aristida str				
	Lis	st 3 of the most commor	n GROUNDCOVER se	edlings obse	rved:		
1.		2.		3			
		List the WEEDY of	or RUDERAL species	observed:			
1		2		2			

10. Tree density: appropriate 11. Tree health: trees healthy	✓ inappropriate Why? ✓ trees stressed Why?		
 13. Water table:	lebris elevated lichen lines aquatic tained vegetation/ stain lines morpholog below surface son-tannic/clear cloudy	at/aufwuchs aquatic bryotphytes fauna tussocks/hummocks gical plant adaptations/adventitious roots/bitanding water: present absent f cloudy, why? suspended sediment	
, , =	oil subsidence / oxidation of muck	ed roots abnormal tree fall du lines: typical abnorn	
	List inappropriate		1141
1.	2.	3.	
4. 17. Wildlife usage and natural history animal remains	5. observations: footprints scat ratch marks frog calls	6. herbivory observed arthropods observed reptile	ests/calls fish observed s observed mammals observed
	Notes on wildlife use		manimals observed
Ferral hog rutting, turkey vulture observed, cricket	ets and mosquitos		
	osent f present must be georeferenced and	l include the following information:	
Species:	Location:	latitude	longitude
% cover: 0-1% 1-5% 6-			longitude
	·23/0 20-30/0 31-73/0 70-100	7.70	
Species:	Location:	latitude	longitude
		latitude	longitude
	Location: 25%	latitude	longitude
% cover: 0-1% 1-5% 6-19. Notes on the general aspect of the ls natural regeneration occur.	Location: 25% 26-50% 51-75% 76-100 ne site/techniques to meet restoration	latitude % on goals:	longitude emental planting/seeding needed
% cover: 0-1% 1-5% 6-19. Notes on the general aspect of the ls natural regeneration occursite is/has: fire suppressed	Location: 25%	latitude on goals: i: species appropriate supple dary growth planted clear-o	emental planting/seeding needed
% cover: 0-1% 1-5% 6- 19. Notes on the general aspect of the second of the land of the land of the second of the land of the	Location: 25%	latitude on goals: i: species appropriate supple dary growth planted clear-o ~Tree age: 0-5 yrs 6-10 y	emental planting/seeding needed
% cover: 0-1% 1-5% 6-19. Notes on the general aspect of the ls natural regeneration occurs Site is/has: fire suppressed If planted: bedded and planted: Recommendations for rest	Location: 25%	latitude on goals: : species appropriate supple dary growth planted clear-caperage: 0-5 yrs 6-10 y nical treatment other:	emental planting/seeding needed cut rs

Site Name:	Breakfast Point		Plant community t	ype: Hydric Pine Fla	atwoods	
Transect ID:	BPQT15_P2		Date and time (am/	om): 12	2/21/2004 AM	✓ PM
1. Weather:	✓ Full Sun	Part Sun	Cloudy	Cloudy and R	Rain/Fog	
2. Temperature:	20-50 F	51-70 F	✓ 71-90 F	91-110 F		
3. CANOPY % cover:	Pine Pla	ntation (Rows)	Managed for Pine		Natural Forest	
	Absent	0-1% 1-5%		0% 51-75%	76-100%	
4. Estimated height class	ss of the majority of TREE	ES using the following so	cale:	absent	3-5m	>10m
		List 3 dominant	TREE species observed	I in canopy:		
 Pinus elliot 	tii	2.		3.		
5. Estimated height class	ss of the majority of SUB	CANOPY using the follo	wing scale:	absent	3-5m 4-10m	>10m
		List 3 dominar	nt SUBCANOPY species	observed:		
 Pinus elliot 	tii	2.		3.		
6. SHRUBS % cover:		Absent 0-1%	1-5% 6-25	% 26-50% 🗸	51-75% 76-100%	ó
		List 3 domi	nant SHRUB species ob	served:		
1. Ilex glabra		2. Ilex myrt	tifolia	3. Hy	pericum chapmanii	
7. Estimated height class	ss of the majority of SHR	JBS using the following	scale:	absent	05m 🗸 .6-1.5m	1.6-3m
	L	ist 3 of the most commo	on SHRUB and/or TREE	seedlings observed:	:	
1.		2.		3.		
8. GROUNDCOVER %	cover of graminoids (gra	sses, sedges and rushe	s):			
	Absent	0-1% 1-5%	6-25% 26-5	0% 51-75%	76-100%	
9. TOTAL GROUNDCO	VER % cover (including	graminiods and forbes):				
	Absent	0-1% 1-5%		0% 51-75%	76-100%	
		List 4 dominant	GROUNDCOVER specie	es observed:		
1	 Aristida stricta 		2. Rhynch	ospora inundata		
3	- Eriocaulon spp		4. Lacnar	thes spp		
		List 3 of the most comm	mon GROUNDCOVER s	eedlings observed:		
1.		2.		3.		
		List the WEED	Y or RUDERAL species	observed:		
realifest Baint Mitigation 200	C Annual Manitarian Danast	2.		3.		

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Appendix B: Qualitative Monitoring Data Results

10. Tree density: 11. Tree health:	appropriate trees healthy	✓ inappropriate✓ trees stressed	Why?: too der		too sparse too wet	
12. Hydrologic indicat 13. Water table: 14. Water color: 15. Water column: 16. Altered hydrology:	rafted debris water stained at the surface tannic non-tanr sphagnum present soil subs	utricularia present idence / oxidation of muck	algal mat/aufwuchs aquatic fauna morphological plant adap Standing water: If cloudy, why? exposed roots lichen lines: propriate vegetation:	present suspended s abnormal tre	nocks secondary flos s roots/buttressed trunks/l absent	ow channels hypertrophied lenticles
1.		2.	propriate vegetation.	3.		
4.		2. 5.		s. 6.		
animal re	Iture, crickets, and butterfl	narks footprints marks frog calls Notes on w y observed	✓ arthrop rildlife useage observe	oods observed cod:	bird nests/calls reptiles observed	fish observed mammals observed
	If p	resent must be georefere		•	on:	
Species:		Location:		latitude		longitude
% cover: 0-1% Species: % cover: 0-1% 19. Notes on the gene	1-5% 6-25% 1-5% 6-25% ral aspect of the site/tec	26-50% 51-75% Location: 26-50% 51-75% hniques to meet restorat	76-100%	latitude		longitude
Site is/has If planted	regeneration occuring? Fire suppressed yes no appropriately managed not bedded but manage	secondary growth	planted planted 0-5 yrs	supplemental planting/s clear-cut 6-10 yrs 11-20 yrs	seeding needed	
	Specific n	otes on restoration, obs	ervations, or adaptive	management ted	chniques:	
Canopy reduction and p	prescribed burn as per the	mitigation plan.				

Site Name:	Breakfast Point		Plant com	munity type	: Cypress Fla	at		
Transect ID:	BPQT15_P3		Date and ti	me (am/pm)	:	12/21/2004	4 🗸 AM	PM
1. Weather:	✓ Full Sun	Part Sun	Cloudy		Cloudy a	ind Rain/Fog		
2. Temperature:	20-50 F	✓ 51-70 F	71-90 F		91-110 F	=		
3. CANOPY % cover:	Pine Pla	ntation (Rows)	✓ Managed	for Pine		Natural F	orest	
	Absent	0-1% 1-5%	6-25%	26-50%	<u></u> 51-75%	76-100%		
4. Estimated height class	s of the majority of TREE	S using the following so	cale:		absent	✓ 3-5m	6-10m	>10m
		List 3 dominant	TREE species	observed in o	canopy:			
1. Pinus elliot	tii	2. Taxodiu	m ascendens		3	. Magnolia v	irginiana	
5. Estimated height class	ss of the majority of SUB				absent	✓ 3-5m	6-10m	>10m
		List 3 dominar	t SUBCANOPY	species obs	served:			
1. Nyssa urs	ina	2. Taxodiu	m ascendens		3			
6. SHRUBS % cover:		Absent 0-1%	1-5%	6-25%	26-50%	<u></u> 51-75%	76-100%	
		List 3 domi	nant SHRUB sp	ecies observ	ved:			
 Myrica hete 	erophylla	2. Nyssa u	rsina		3	. Ilex myrtifo	lia	
7. Estimated height class	ss of the majority of SHRI	JBS using the following	scale:		absent	05m	.6-1.5m	✓ 1.6-3m
	L	ist 3 of the most commo	on SHRUB and/	or TREE see	edlings obser	ved:		
 Pinus elliot 	tii	2. Taxodiu	m ascendens		3	. Nyssa sylva	atica v. ursina	a
8. GROUNDCOVER $\%$	cover of graminoids (gra	sses, sedges and rushe	s):					
	Absent	0-1% 1-5%	6-25%	✓ 26-50%	51-75%	76-100%		
9. TOTAL GROUNDCO	OVER % cover (including	graminiods and forbes):						
	Absent	0-1% 1-5%	6-25%	26-50%	√ 51-75%	76-100%		
		List 4 dominant	GROUNDCOVE	R species of	bserved:			
1	 Aristida stricta 		2	· Juncus roe	marianus			
3	Hypericum sp.		4	· Erianthus g	jiganteus			
		List 3 of the most com	mon GROUND C	OVER seedl	lings observe	ed:		
1.		2.			3			
		List the WEED	Y or RUDERAL	species obs	served:			
1. Andropogo	n sp.	2.			3			

Andropogon sp.

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10. Tree density:	appropriate	✓ inappropriate	Why?: Joo dense	e too sparse	
11. Tree health:	trees healthy	√ trees stressed	Why?: too dense	e too wet	
12. Hydrologic indicate 13. Water table:	rafted debris	sediment deposition elevated lichen lines vegetation/ stain lines below surface	algal mat/aufwuchs aquatic fauna morphological plant adapta Standing water:	, , , , , , , , , , , , , , , , , ,	tic plants ndary flow channels trunks/hypertrophied lenticles
14. Water color: 15. Water column:	✓ tannic non-tannic li>		If cloudy, why?	suspended sediments ot	ther:
16. Altered hydrology:	=	idence / oxidation of muck oriate vegetation	exposed roots lichen lines:	abnormal tree fall due to soil s typical abnormal	subsidence
			propriate vegetation:	— ;· —	
1. Pinus elliott	i	2.		3.	
4.		5.		6.	
17. Wildlife usage and	natural history observatio	ons: footprints	scat herbivory	observed bird nests/calls	fish observed
animal re	mains scratch i	marks frog calls	arthropod arthropod	ds observed reptiles observed	d mammals observed
Florida Cricket Frog (Acr	is gryllus dorsalis), mosc	quito fish (Gambusia affinis		•	
18. Exotic species:	present / absent	·	,		
	If p	resent must be georefere			
Species:		Location:		latitude	longitude
% cover:	1-5% 6-25%	26-50% 51-75%	76-100%		
Species:		Location:		latitude	longitude
% cover:0-1%	1-5% 6-25%	☐ 26-50% ☐ 51-75% hniques to meet restorat	76-100%		
	generation occuring?				,
	fire suppressed	yes no appropriately managed	secondary growth	ppropriate supplemental planted clear-cut	anting/seeding needed
If planted:	bedded and planted	not bedded but manage	d for pine ~Tree age:	: 0-5 yrs 6-10 yrs 🗸 1	1-20 yrs 20+ yrs
Recommen		prescribed burn otes on restoration, obs	mechanical treatment	other:	
Contains wet prairie spe	-	chapmanii and Sarracenia	-	-	
•		•		reproduce and light to reach th	ne groundcover.
	-	d pine canopy reduction red			

Breakfast Point Mitigation 2006 Annual Monitoring Report ERC# 04-310



Breakfast Point Phase 1 Transect 1
Mixed Forested Wetland (BP1T1 MFW)



Breakfast Point Phase 1 Transect 4 Hydric Pine Flatwoods (BP1T4 HPF)

Breakfast Point Mitigation Bank – Phase 1 Quantitative Photographs



Breakfast Point Phase 1 Transect 2 Cypress Flats (BP1T2 CF)





Breakfast Point Phase 1 Transect 3 Mesic Pine Flatwoods (BP1T3 MPF)



Breakfast Point Phase 1 Transect 5 Mesic Pine Flatwoods (BP1T5 MPF)

Ecological Resource Consultants, Inc.



Breakfast Point Phase 1 Transect 6
Cypress Flats (BP1T6 CF)



Breakfast Point Phase 2 Transect 1 Mesic Pine Flatwoods (BP2T1 MPF)

Breakfast Point Mitigation Bank – Phase 1 & 2 Quantitative Photographs



Breakfast Point Phase 1 Transect 7
Cypress Flats (BP1T7 CF)





Breakfast Point Phase 1 Transect 8
Hydric Pine Flatwoods (BP1T8 HPF)



Breakfast Point Phase 2 Transect 2 Cypress Flats (BP2T2 HPF)



Breakfast Point Phase 2 Transect 3 Mesic Pine Flatwoods (BP2T3 MPF)



Breakfast Point Phase 2 Transect 6 Mesic Pine Flatwoods (BP2T6 MPF)

Breakfast Point Mitigation Bank – Phase 2 Quantitative Photographs



Breakfast Point Phase 2 Transect 4 Cypress Flats (BP2T4 CF)





Breakfast Point Phase 2 Transect 5 Hydric Pine Flatwoods (BP2T5 HPF)



Breakfast Point Phase 2 Transect 7 Cypress Flats (BP2T7 CF)

Ecological Resource Consultants, Inc.



Breakfast Point Phase 2 Transect 8
Hydric Pine Flatwoods (BP2T8 HPF)

Breakfast Point Mitigation Bank – Phase 2 Quantitative Photographs



Breakfast Point Phase 2 Transect 9 Mesic Pine Flatwoods (BP2T9 MPF)

Ecological Resource Consultants, Inc.



Breakfast Point Transect 1 Reference Point 1 Hydric Pine Flatwoods (BPQT1 P1 HPF)



Breakfast Point Transect 2 Reference Point 2 Mesic Pine Flatwoods (BPQT2 P2 MPF)

Breakfast Point Mitigation Bank Qualitative Photographs



Breakfast Point Transect 1 Reference Point 2
Mesic Pine Flatwoods (BPQT1 P2 MPF)





Breakfast Point Transect 2 Reference Point 1 Hydric Pine Flatwoods (BPQT2 P1 HPF)



Breakfast Point Transect 2 Reference Point 3 Hydric Pine Flatwoods (BPQT2 P3 HPF)

Breakfast Point Mitigation Bank ERC# 04-310



Breakfast Point Transect 3 Reference Point 1
Mesic Pine Flatwoods (BPQT3 P1 MPF)



Breakfast Point Transect 3 Reference Point 4
Mesic Pine Flatwoods (BPQT3 P4 MPF)

Breakfast Point Mitigation Bank Qualitative Photographs



Breakfast Point Transect 3 Reference Point 2 Hydric Pine Flatwoods (BPQT3 P2 HPF)





Breakfast Point Transect 3 Reference Point 3 Hydric Pine Flatwoods (BPQT3 P3 HPF)



Breakfast Point Transect 4 Reference Point 1
Cypress Flats (BPQT4 P1 CF)



Breakfast Point Transect 4 Reference Point 2
Mixed Forested Wetland (BPQT4 P2 MFW)



Breakfast Point Transect 4 Reference Point 5
Cypress Flats (BPQT4 P5 CF)

Breakfast Point Mitigation Bank Qualitative Photographs



Breakfast Point Transect 4 Reference Point 3 Mixed Forested Wetland (BPQT4 P3 MFW)





Breakfast Point Transect 4 Reference Point 4
Hydric Pine Flatwoods (BPQT4 P4 HPF)



Breakfast Point Transect 5 Reference Point 1
Cypress Flats (BPQT5 P1 CF)

Breakfast Point Mitigation Bank ERC# 04-310



Breakfast Point Transect 5 Reference Point 2 Hydric Pine Flatwoods (BPQT5 P2 HPF)



Breakfast Point Transect 7 Reference Point 1
Cypress Flats (BPQT7 P1 CF)

Breakfast Point Mitigation Bank Qualitative Photographs



Breakfast Point Transect 6 Reference Point 1
Mesic Pine Flatwoods (BPQT6 P1 MPF)





Breakfast Point Transect 6 Reference Point 2
Palustrine Marsh (BPQT6 P2 PM)



Breakfast Point Transect 7 Reference Point 2
Hydric Pine Flatwoods (BPQT7 P2 HPF)

Breakfast Point Mitigation Bank ERC# 04-310



Breakfast Point Transect 8 Reference Point 1
Mesic Pine Flatwoods (BPQT8 P1 MPF)



Breakfast Point Transect 9 Reference Point 2 Hydric Pine Flatwoods (BPQT9 P2 HPF)

Breakfast Point Mitigation Bank Qualitative Photographs



Breakfast Point Transect 8 Reference Point 2
Palustrine Marsh (BPQT8 P2 PM)





Breakfast Point Transect 9 Reference Point 1
Palustrine Marsh (BPQT9 P1 PM)



Breakfast Point Transect 10 Reference Point 1 Hydric Pine Flatwoods (BPQT10 P1 HPF)



Breakfast Point Transect 10 Reference Point 2
Mesic Pine Flatwoods (BPQT10 P2 MPF)



Breakfast Point Transect 10 Reference Point 5
Cypress Flats (BPQT10 P5 CF)

Breakfast Point Mitigation Bank Qualitative Photographs



Breakfast Point Transect 10 Reference Point 3
Cypress Flats (BPQT10 P3 CF)





Breakfast Point Transect 10 Reference Point 4
Hydric Pine Flatwoods (BPQT0 P4 HPF)



Breakfast Point Transect 11 Reference Point 1
Mesic Pine Flatwoods (BPQT11 P1 MPF)

Breakfast Point Mitigation Bank ERC# 04-310



Breakfast Point Transect 11 Reference Point 2 Hydric Pine Flatwoods (BPQT11 P2 HPF)



Breakfast Point Transect 13 Reference Point 1 Mesic Pine Flatwoods (BPQT13 P1 MPF)

Breakfast Point Mitigation Bank Qualitative Photographs



Breakfast Point Transect 12 Reference Point 1
Mesic Pine Flatwoods (BPQT12 P1 MPF)





Breakfast Point Transect 12 Reference Point 2 Hydric Pine Flatwoods (BPQT12 P2 HPF)



Breakfast Point Transect 13 Reference Point 2 Mixed Forested Wetland (BPQT13 P2 MFW)



Breakfast Point Transect 13 Reference Point 3 Hydric Pine Flatwoods (BPQT13 P3 HPF)



Breakfast Point Transect 14 Reference Point 3 Hydric Pine Flatwoods (BPQT14 P3 HPF)

Breakfast Point Mitigation Bank Qualitative Photographs



Breakfast Point Transect 14 Reference Point 1
Mesic Pine Flatwoods (BPQT14 P1 MPF)





Breakfast Point Transect 14 Reference Point 2
Cypress Flats (BPQT14 P2 CF)



Breakfast Point Transect 15 Reference Point 1 Hydric Pine Flatwoods (BPQT15 P1 HPF)

Breakfast Point Mitigation Bank ERC# 04-310



Breakfast Point Transect 15 Reference Point 2 Hydric Pine Flatwoods (BPQT15 P2 HPF)

Breakfast Point Mitigation Bank Qualitative Photographs



Breakfast Point Transect 15 Reference Point 3
Cypress Flats (BPQT15 P3 CF)



Breakfast Point Mitigation Bank
ERC# 04-310

Breakfast Point Mitigation Bank 2006 Annual Report Appendix E: Semiannual Reports July 2006, December 2006

Year 2006 Semi-annual Progress Report
July 2006
Breakfast Point Mitigation Bank
Bay County, Florida
Prepared for:
Breakfast Point Mitigation Bank,
St. Joe Company

Submitted to:

The Florida Department of Environmental Protection Mitigation Bank Instrument Number 0227473-001

U.S. Army Corps of Engineers Mitigation Bank Instrument Number SAJ-2004-1865

U.S. Fish and Wildlife Service

U.S. Environmental Protection Agency, Region IV

St. Joe Company

Prepared by Ecological Resource Consultants, Inc. 410B East 6 Avenue Tallahassee, Florida 32303

I. Introduction

A. Purpose

This bi-annual progress report summarizes the activities that have occurred at the Breakfast Point Mitigation Bank (BPMB) since the annual progress report of January 2006. Semi-annual progress reports are requirements as per the mitigation bank instrument. The outline for the progress reports is contained the monitoring provisions of the instrument. All information below concerns all activities that have taken place at the BPMB between February 1, 2006 and June 31, 2006.

II. Progress Report

- A. Itemized checklist of requested information as per the BPMB instrument.
 - 1. Date permitted activities were begun or anticipated to begin.
 - 2. Brief description and extent of work completed since the previous report.
 - 3. Copies of permit drawings indicating areas where work has been completed.
 - 4. A description of problems encountered and solutions undertaken.
 - 5. A brief description of the work and/or site management the Sponsor anticipates commencing, continuing or completing in the next six months.
- B. Summary of itemized checklist.

1. Permitted activities

a. No prescribed burning activities were conducted at the BPMB in the period of this report. This is due to extremely dry and hot weather that occurred throughout the spring. The Florida Division of Forestry does not issue burn permits during these conditions. Also, Bay County enacted a 90 day burn ban effective June 6, 2006. Phase 1 and 2 were mechanically treated in preparation for proposed prescribed fire scheduled for summer 2006. This is per the MBI permit III.G, the compensatory mitigation plan Section 6 restoration implementation and Attachment A-2. See attached *Emergency Ban on Burning*, by order of the Bay County Board of County Commissioners, June 6, 2006.

- 2. Brief description and extent of work completed since the previous report All work completed within this section, is per the MBI permit community requirements IV.E.2.a, the compensatory mitigation plan Section 6 restoration implementation and Table A-4 (pg 21).
 - a. Walk down of planted slash pines in Phase 1. Planted pines were walked down in all polygons requiring canopy reduction of Phase 1 as part of mechanical reduction of canopy to the appropriate density in Phase 1 between 1 May and 25 May 2006. The walk down was completed in areas where the pines were too large for roller chopping and too small for harvesting with a conventional logging crew. This activity was carried out in order to thin the canopy and to prepare Phase 1 for a prescribed burn. See, Exhibit 1.
 - b. Walk down of planted slash pines in Phase 2. Planted pines were walked down in required areas of Phase 2 as part of mechanical reduction of canopy to a more appropriate density in Phase 2 and the north edge of Botheration Bayou between 20 April and 30 April 2006. The canopy pines were non-merchantable and were too large to be roller chopped. This activity occurred in order to have a more complete prescribed burn and allow for safer burning along the boundary of the mitigation bank. See, Exhibit 2.
 - c. Roller chopping of planted slash pines in Phase 1. Selected slash pines were chopped in polygons where the timber was only several years old. Planted pines small enough to be roller chopped in Phase 1 were roller chopped between 1 May and 10 May 2006. See, Exhibit 1.
 - d. Gyro-Trac of the groundcover in Phase 1. An active Bald Eagle (*Haliaeetus leucocephalus*) nest is located within a mixed forested wetland in Phase 1. The average age of the canopy is over 100 yrs old. The understory within the mixed forested wetland is extremely thick and heavy with an average height of 12-18 feet. This activity was two-fold, first to reduce understory and likelihood of a catastrophic crown fire along the southern boundary. Second, to reduce fire suppressed vegetation adjacent to the eagle nest in an effort to reduce stress on the nest tree, i.e. insure nest tree is kept alive and the nest secured for the future. Note: all clearing of underbrush outside of the 750' management zone was done after the eagle nesting season (late May, June). No work of this type was performed within 750' of the nest tree. Management of active Bald Eagle nest followed the "Habitat Management Guidelines for the Bald Eagle in the Southeast Region" Third Revision, 1987. U.S. Fish and Wildlife Service. See, Exhibit 1.
- 3. All timber activities were monitored by ERC, Inc. staff and BMPs were followed throughout the BPMB as per the MBI permit Maintenance and monitoring of the

- bank V.A.1. In areas where the timber was harvested the canopy reduction was combined with mechanical vegetation reduction of fire suppressed understory hardwoods. This was accomplished by knocking over the fire suppressed subcanopy and shrub strata during the timber operations. This woody material and pine slash is now dry and closer to the ground where it will have a greater likelihood of being incinerated when these areas are prescribed burned in 2006. This is per the MBI permit establishment of the bank III.F and community requirements IV.E.2.a, the compensatory mitigation plan Section 6 restoration implementation and Table A-4 (pg 21).
- 4. Weather related postponement of prescribed burns has been and continues to be a significant issue. Due to dry and hot weather, The Florida Division of Forestry did not permit any prescribed burning after April 2006. Bay County also enacted a 90 day county wide burn ban beginning June 6, 2006, see referenced attachment in B.1.a, above. Weather permitting, the burn ban should be lifted August 2006. Proactive adaptive management has been discussed with the MBRT and areas that were scheduled to be burned in 2005 will be burned in 2006. In addition we have used mechanical means to further prepare areas scheduled to be prescribed burned in 2006. This is per the MBI permit III.G, the compensatory mitigation plan Section 6 restoration implementation and Attachment A-2.
- The following is a brief description of the work and/or site management the sponsor anticipates commencing, continuing or completing in the next six months.
 - a. Qualitative and quantitative vegetative monitoring transects in Phases 1 and 2 of the BPMB will be sampled in the Fall of 2006, assuming that weather and permit conditions allow for scheduled prescribed burns. This activity is per the MBI permit Maintenance and monitoring of the bank V.B, and the compensatory mitigation plan Attachment A-8.
 - b. When torpedo grass or any other invasive exotic growth resumes during the growing season of 2006, the areas and species will be treated with the appropriate herbicide. This activity is per the compensatory mitigation plan Section 6 restoration implementation.
 - c. Additional timber harvesting is scheduled for Phase 2 when appropriate conditions allow silvicultural activities to occur. Weather permitting, the plan is to resume timber harvesting on the BPMB during the remainder of 2006. This activity is per the MBI permit establishment of the bank III. F and community requirements IV.E.2.a, the compensatory mitigation plan Section 6 restoration implementation and Table A-4 (pg 21).
 - d. Phases 1 and 2 are scheduled to be prescribed burned during the growing season of 2006, weather permitting. This activity is per the MBI permit III.G,

Breakfast Point Mitigation Bank 2006 Annual Report Appendix E: Semiannual Reports July 2006, December 2006

the compensatory mitigation plan Section 6 restoration implementation and Attachment A-2.

e. Photographic reference of burn units is planned immediately after scheduled prescribed fires in phases 1 and 2. This activity is per the MBI permit establishment of the bank section III. G.

Semi-annual Progress Report

December, 2006

Breakfast Point Mitigation Bank Bay County, Florida

Submitted to:

The Florida Department of Environmental Protection Mitigation Bank Instrument Number 0227473-001

U.S. Army Corps of Engineers Mitigation Bank Instrument Number SAJ-2004-1865

U.S. Fish and Wildlife Service

U.S. Environmental Protection Agency, Region IV

St. Joe Company

Prepared by:

Ecological Resource Consultants, Inc. 410B East 6 Avenue Tallahassee, Florida 32303

Purpose

This semiannual progress report summarizes restoration and maintenance activities at the Breakfast Point Mitigation Bank (BPMB) between July 1, 2006 and December 31, 2006 (since the last semiannual report). Semi-annual progress reports are requirements as per the Mitigation Bank Instrument (MBI), and this document responds specifically to the information requests in that instrument.

Restoration and Management Activities

Activities completed or pending are discussed below for each Phase, and as per the Breakfast Point Mitigation Bank / MBI (2005, Section MBI Permit, p. 15). Each information request in the MBI is restated in bold and followed by a response. Permitted activities are recorded chronological order, as indicated.

a. Date permitted activities were begun or anticipated to begin.

Dates are included with each completed and anticipated activity below.

b. Brief description and extent of work completed since the previous report.

Each activity is discussed in chronological order, and includes reference to the applicable section(s) of the MBI Permit.

<u>July, 2006</u>: Herbicide application to invasive exotic plants was conducted (MBI Permit, Section V.A.2.b.).

<u>July – December, 2006</u>: 101 feral hogs were removed (MBI Permit, Sectin V.A.2.c.).

<u>September, 2006</u>: Conducted prescribed burns in Phases 1 and 2. Further burns are necessary to complete fire management for Phase 2 (MBI Permit, Section V.A.2.a.; Section III.G.; Attachment A-1: Compensatory Mitigation Plan: Attachment A-2: Fire Management Plan).

<u>September - October, 2006</u>: Photographic references of burn units were recorded immediately after prescribed fires in Phase 1 (MBI Permit, Section III. G.)

October, 2006: Qualitative and quantitative vegetative monitoring transects in Phases 1 and 2 of the BPMB were sampled (MBI Permit, Part V.B.; Attachment A-1: Compensatory Mitigation Plan).

<u>July-December, 2006</u>: Hydrological Improvement / Assessment Activities. Nine (9) permanent groundwater monitoring wells, four (4) surface water wells and one (1) precipitation gauge collected near-continuous hydrologic data.

c. Copies of permit drawings indicating areas where work has been completed.

None.

- d. A description of problems encountered and solutions undertaken. An early summer burn ban delayed prescribed burning in phase 1. Prescribed burning resumed in September 2006 when conditions allowed.
- e. A brief description of the work and/or site management the Sponsor anticipates commencing, continuing or completing in the next six months.

Additional timber harvesting is scheduled for Phase 2 as appropriate conditions allow. Timber harvesting will resume on the BPMB during 2007 with appropriate weather (MBI Permit, Section III.F; Section IV.E.2.a.; Table A-4, p. 21).

Phase 2 is also scheduled for a prescription burn during the growing season of 2007 (as per MBI Permit, Section III.G; Attachment A-1: Compensatory Mitigation Plan; Attachment A-2: Fire Management Plan).

Photographic reference of burn units is planned immediately after scheduled prescribed fires (MBI Permit Section III. G).

Continued hydrologic assessment activities are planned until 2008.

SN 4461 FC5400-15

ATTACHMENT 2A







District: Chipola District Authorization #: 100053

Landowner: St. Joe Timberland Company Address: 14500 School Drive, Panama City Beach, Florida 32413

Telephone #: 850.234-2204 Sections: 12, 13,14, 24 T: 3S R: 16W County: Bay

850.227-4352 cell and 7, 8, 17, 18, 19, 20 T: 3S R: 15W

Acres to Burn: 1,282 primary burn acres, 2,323 Phase II acres Distance to Plow: Previous Burn Date: NA

Stand Description: Wet Flatwoods Burn Compartment: Phase I Burn Area: Breakfast Point Mitigation Area

Overstory Type: Slash/Cypress/Titi/Gum. Height to Bottom of Crown: 10 - 30 feet, depending on age of planted/natural stand.

Understory Type: Mixed gallberry/titi. Many wetland herbaceous species present. Dense ground fuels due to thinning of pines.

Fuel Description: Pine duff with grass/shrub/herbaceous fuels. **Topography and Soil:** Flat topo with interspersed wet depressions, wetland/organic soils.

Purpose of Burn: Wetland Restoration and fuel reduction

Burn Objectives: Kill hardwood/shrub understory and canopy to enhance and promote herbaceous wetland species. Reduce fuels

produced by sylviculture operations of younger slash pine stands. Goal is wetland restoration.

Firing Techniques & Ignition Methods: Aerial Ignition with hand ignition used for back firing and pull-up on block boundaries – Two-day burn possible

Burn the north half of Phase I on day one, the southern half day two. Day-1 burn buffers phase II and III from potential spot fires.

Needs 50' black-line back-fire to reduce spot-fire potential. Expect heavy smoke due to rough fuel loads and higher fuel moisture on all

Watch for spot fires into adjacent secondary burn areas Phase II and III. Phase I is primary objective!

NOTE: If helo-torch not available, hand-ignition burn north 350 acres of Phase I with E-W ditch as south burn boundary.

Season: Growing Season - spring into summer. Mortality of young slash pine expected due to scorching and cambium burn.

Personnel Needs: 4 ground crew and burn boss. Equipment Needs: Three fire plows and operators, two 4-wheelers for ground

Breakfast Point Mitigation Bank 2006 Annual Report Appendix E: Semiannual Reports July 2006, December 2006

Maximum Crown Scorch Acceptable: up to 100 % Passed Smoke Screening System: Yes, if burn conducted under SE, S, or SW

Listed Possible Smoke-Sensitive Areas: Hwy 79 and West Bay Elementary school with southeast winds. Hwy. C-388 north - S Winds.

Special Precautions: 'Smoke/Fog Ahead' signs ready if needed on Hwy. 79 or C-388. Notify local fire and law enforce. Depts.

Adjacent Landowners to Notify: None Inform FL DOF. Notify PC Beach Fire and Police Depts. and Bay County Sheriff.

Page 2, Burn Compartment: Area: Breakfast Point Mitigation Area

MONITORING & EVALUATION PROCEDURES PRE-BURN BURN POST BURN							
Maximum KBDI of 500	Check DOF fire readiness level! Level 1 or 2 preferred.	Evaluate burn of 10-hr fuels (downed slash pine)					
WEATHER FACTORS	PREFERRED	ACTUAL					
Surface Winds	5 to 15 MPH, SE to SW winds	SEE ATTACHED FIRE WEATHER					
Transport Winds	10 to 15, Sea Breeze by mid-day						
Minimum Mixing Height	2000 ft						
Dispersion Index (DAY)	40-70						
Dispersion Index (NIGHT)	1-3						
Maximum Temperature	90 F						
Minimum Relative Humidity	40 %						
Fine Fuel Moisture	>25 %						
Rate of Spread	1 chain/hour- Back, 5-7 C/hr head						
Starting Time	9:00 AM						
Burn Technique	Backing fire, followed by strip head						
Flame Length	3-5' Backing, Some 10-12 expected						
Days Since Rain:	2-3 days, depending on rainfall amt.						
Burn Manager:	Date Burned:						
	PRE-BURN CHECKLIST						
FIRE BOSS: Initial each item to indicate All prescription requisites met (prepate Authorization obtained. Adjacent landowners notified within Local contacts made day of burn to Smoke screening performed and do All equipment required on scene and Each crew member has proper pers	past seven days of burn). past seven days of plan to burn. advise (FHP, SO, Fire Dept., media, etc.) cumented. d fully operational.						
	CREW BRIEFING						
 □ Crew Assignments made. □ Ignition technique and pattern. Holdi □ Location of extra equipment, fuel, was a communications. □ Contingencies covered including escential experience. □ Sources of nearest assistance. Near communications regarding smokes □ Ouestions. 	ater, vehicle keys. cape routes or procedures.						
	ation number: Fire Boss – James Moyers Custo						
riescription done by: Jim Moyers — Certifica	auon number. The boss – James Moyers Custo	лист #. 1312342					

CERTIFIED BURN MANAGER SIGNATURE:

Fire Weather: 9-22-2006 - Afternoon forecast

FLZ007-009>013-231200-INLAND WALTON-HOLMES-WASHINGTON-JACKSON-BAY-CALHOUN-214 PM CDT FRI SEP 22 2006

James Morres

	TONIGHT	SAT	SAT NIGHT	SUN
CLOUD COVER	MCLDY	PCLDY	PCLDY	PCLDY
CHANCE PRECIP(%)	20	30	20	40
PRECIP TYPE	TSTMS	TSTMS	TSTMS	TSTMS
TEMP	69	89	68	88
RH(%)	100	56	99	55
20FT WND MPH(AM)		SE 3		S 3
20FT WND MPH(PM)	S 8	S 10	S 5	SW 10
PRECIP DURATION	1	1	1	1
PRECIP BEGIN	CONTINUING	12 PM	CONTINUING	12 PM
PRECIP END	2 AM	CONTINUING	11 PM	CONTINUING
PRECIP AMOUNT	0.10-0.25	0.10-0.25	<0.10	0.10-0.25
LAL	3	3	3	3
CEILING	10000	NO CIG	NO CIG	NO CIG
MIXING HGT(FT-AGL)	300	3700	300	3800
TRANSPORT WIND(MPH)	SE 3	S 14	S 2	SW 10
DISPERSION INDEX	2	62	1	47
MAX LVORI	10	4	10	4

REMARKS...NONE.

- .MONDAY...MOSTLY CLOUDY. CHANCE OF SHOWERS AND THUNDERSTORMS. LOWS IN THE MID 60S. HIGHS IN THE MID 80S. NORTH WINDS AROUND 10 MPH. CHANCE OF RAIN 40 PERCENT.
- .TUESDAY...MOSTLY CLEAR. LOWS IN THE UPPER 50S. HIGHS IN THE MID 80S. NORTH WINDS 5 TO 10 MPH.
- .WEDNESDAY...MOSTLY CLEAR. LOWS IN THE UPPER 50S. HIGHS IN THE MID 80S. LIGHT WINDS BECOMING EAST AROUND 5 MPH IN THE AFTERNOON. .THURSDAY...PARTLY CLOUDY. LOWS IN THE LOWER 60S. HIGHS IN THE MID 80S. EAST WINDS 5 TO 10 MPH.
- .FRIDAY...MOSTLY CLOUDY. CHANCE OF SHOWERS AND THUNDERSTORMS. LOWS IN THE LOWER 60S. HIGHS IN THE LOWER 80S. LIGHT WINDS BECOMING WEST AROUND 5 MPH IN THE AFTERNOON. CHANCE OF RAIN 40 PERCENT.

<u>Fire Weather – 9-23-06, Morning of Burn</u>

[.]FORECAST FOR DAYS 3 THROUGH 7...

Breakfast Point Mitigation Bank 2006 Annual Report Appendix E: Semiannual Reports July 2006, December 2006

FLZ007-009>013-231930-

BAY-CALHOUN-HOLMES-INLAND WALTON-JACKSON-WASHINGTON-INCLUDING THE CITIES OF...BLOUNTSTOWN...BONIFAY...CHIPLEY... DE FUNIAK SPRINGS...MARIANNA...PANAMA CITY 630 AM CDT SAT SEP 23 2006

	TODAY	TONIGHT	SUN
CLOUD COVER	PCLDY	PCLDY	MCLDY
CHANCE PRECIP(%)	30	20	50
PRECIP TYPE	TSTMS	TSTMS	TSTMS
TEMP	90	72	88
RH(%)	54	98	56
20FT WND MPH(AM)	SE 3		S 2
20FT WND MPH(PM)	S 9	S 8	SW 9
PRECIP DURATION	1	1	2
PRECIP BEGIN	11 AM	CONTINUING	10 AM
PRECIP END	CONTINUING	11 PM	CONTINUING
PRECIP AMOUNT	0.10-0.25	<0.10	0.25-0.50
LAL	3	3	3
CEILING	NO CIG	NO CIG	5000
MIXING HGT(FT-AGL)	3600	700	3400
TRANSPORT WIND(MPH)	S 15	S 6	SW 12
DISPERSION INDEX	64	4	35
MAX LVORI	4	6	4

REMARKS...NONE.

- .FORECAST FOR DAYS 3 THROUGH 7...
- .MONDAY...PARTLY CLOUDY WITH A 30 PERCENT CHANCE OF SHOWERS AND THUNDERSTORMS. LOWS IN THE UPPER 60S. HIGHS IN THE MID 80S. NORTHWEST WINDS 5 TO 10 MPH.
- .TUESDAY...MOSTLY CLEAR. LOWS IN THE UPPER 50S. HIGHS IN THE MID 80S. NORTH WINDS 5 TO 10 MPH.
- .WEDNESDAY...MOSTLY CLEAR. LOWS IN THE MID 50S. HIGHS IN THE UPPER 80S. NORTH WINDS AROUND 5 MPH.
- .THURSDAY...PARTLY CLOUDY WITH A SLIGHT CHANCE OF RAIN. LOWS IN THE UPPER 50S. HIGHS IN THE MID 80S. WEST WINDS AROUND 5 MPH. CHANCE OF RAIN 20 PERCENT.
- .FRIDAY...PARTLY CLOUDY. LOWS IN THE UPPER 50S. HIGHS IN THE MID 80S. NORTHWEST WINDS 5 TO 10 MPH.

